

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: February 15, 2005, 17:27:45 : Search time 1.6517 Seconds  
(without alignments)  
1220.271 Million cell updates/sec

Title: US-09-331-631A-34  
Perfect score: 59  
Sequence: 1 XXXXXXXXXXCCCCXXXXXX 27

Scoring table: BIOSUM62DX  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/ptodata/1/1aa/5A\_COMB.pep:\*  
2: /cgn2\_6/ptodata/1/1aa/5B\_COMB.pep:\*  
3: /cgn2\_6/ptodata/1/1aa/6A\_COMB.pep:\*  
4: /cgn2\_6/ptodata/1/1aa/6B\_COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/PCTUS\_COMB.pep:\*  
6: /cgn2\_6/ptodata/1/1aa/backfilest1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	59	100.0	41	5	PCT-US96-01720-7
2	59	100.0	45	3	US-08-900-230-43
3	59	100.0	45	3	US-08-900-230-44
4	59	100.0	45	3	US-08-900-230-52
5	59	100.0	46	3	US-08-900-230-40
6	59	100.0	47	5	PCT-US96-08811-2
7	59	100.0	50	3	US-08-836-686B-1
8	59	100.0	50	3	US-08-836-686B-4
9	59	100.0	50	3	US-08-836-686B-5
10	59	100.0	50	3	US-08-836-686B-6
11	59	100.0	50	3	US-08-900-230-8
12	59	100.0	51	3	US-08-836-686B-2
13	59	100.0	55	2	US-08-369-829A-1
14	59	100.0	61	2	US-08-785-530-1
15	59	100.0	61	2	US-08-785-530-3
16	59	100.0	61	2	US-08-785-530-4
17	59	100.0	61	2	US-08-785-530-5
18	59	100.0	61	2	US-08-785-530-6
19	59	100.0	61	2	US-09-123-850-1
20	59	100.0	61	2	US-09-123-850-3
21	59	100.0	61	2	US-09-123-850-4
22	59	100.0	61	2	US-09-123-850-5
23	59	100.0	61	2	US-09-123-850-6
24	59	100.0	61	3	US-09-230-180-2
25	59	100.0	61	4	US-09-919-039-31
26	59	100.0	61	4	US-09-919-039-195
27	59	100.0	61	4	US-09-919-039-245

28	59	100.0	61	4	US-09-919-039-272	Sequence 272, App
29	59	100.0	61	4	US-09-949-016-6675	Sequence 6675, App
30	59	100.0	62	3	US-07-780-717C-5	Sequence 5, Appl1
31	59	100.0	62	4	US-09-270-767-34836	Sequence 34836, A
32	59	100.0	62	4	US-09-270-767-50053	Sequence 50053, A
33	59	100.0	68	1	US-07-696-051B-1	Sequence 1, Appl1
34	59	100.0	68	1	US-07-924-063A-1	Sequence 2, Appl1
35	59	100.0	68	1	US-08-138-340B-2	Sequence 1, Appl1
36	59	100.0	69	4	US-09-248-786A-24565	Sequence 24565, A
37	59	100.0	70	3	US-09-188-930-131	Sequence 131, App
38	59	100.0	70	4	US-09-312-283C-131	Sequence 131, App
39	59	100.0	74	4	US-09-819-058-2	Sequence 2, Appl1
40	59	100.0	79	4	US-09-270-767-38435	Sequence 38435, A
41	59	100.0	79	4	US-09-270-767-53652	Sequence 53652, A
42	59	100.0	82	4	US-09-252-991A-22767	Sequence 22767, A
43	59	100.0	83	4	US-09-270-767-37272	Sequence 37272, A
44	59	100.0	83	4	US-09-270-767-52489	Sequence 52489, A
45	59	100.0	84	3	US-09-230-180-5	Sequence 5, Appl1

## ALIGNMENTS

```
RESULT 1
PCT-US96-01720-7
; Sequence 7, Application PC/TUS9601720
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: MODIFIED-AFFINITY STREPTAVIDIN
; NUMBER OF SEQUENCES: 11
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/01720
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/387,055
; FILING DATE: 09-FEB-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Parmelee, Steven W.
; REGISTRATION NUMBER: 31,990
; REFERENCE/DOCKET NUMBER: 16336-5PC
; INFORMATION FOR SEQ ID NO: 7:
; LENGTH: 41 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; PCT-US96-01720-7

Query Match      100.0%; Score 59; DB 5; Length 41;
Best Local Similarity 14.8%; Pred. No. 2.36+02;
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

Qy      1 XXXXXXXXXXCCCCXXXXXX 27
Db      13 CCGGCGACCAACGACTT 39

RESULT 2
US-08-900-230-43
; Sequence 43, Application US/08900230
; Patent No. 6329197
; GENERAL INFORMATION:
; APPLICANT: Bard, Jonathan A.
; TITLE OF INVENTION: DNA ENCODING GALVANN GALR3 RECEPTORS AND
; USES THEREOF
; NUMBER OF SEQUENCES: 59
```

CORRESPONDENCE ADDRESS:  
ADDRESSEE: Cooper & Dunham LLP  
STREET: 1185 Avenue of The Americas  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 11036

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/900,230  
FILING DATE: 23-JUL-1997  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: White, John P.  
REGISTRATION NUMBER: 28,678  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212-391-0525  
TELEFAX: 212-278-0400  
INFORMATION FOR SEQ ID NO: 43:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 45 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: linear  
HYPOTHEICAL: NO  
ANTI-SENSE: NO  
US-08-900-230-43

Query Match  
Best Local Similarity 100.0%; Score 59; DB 3; Length 45;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

QY 1 XXXXXXXXXXCCCCGCGCCCTACGCGCT 27  
DB 10 TCGCCTTACGCCGCGCCCTACGCGCT 36

RESULT 3  
US-08-900-230-44  
Sequence 44, Application US/08900230  
Patent No. 6329197  
GENERAL INFORMATION:  
APPLICANT: Baird, Jonathan A.  
TITLE OF INVENTION: DNA ENCODING GALANN GALR3 RECEPTORS AND  
NUMBER OF SEQUENCES: 59  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Cooper & Dunham LLP  
STREET: 1185 Avenue of The Americas  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 11036  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/900,230  
FILING DATE: 23-JUL-1997  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: White, John P.  
REGISTRATION NUMBER: 28,678  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212-391-0525  
TELEFAX: 212-278-0400  
INFORMATION FOR SEQ ID NO: 43:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 45 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: linear  
HYPOTHEICAL: NO  
ANTI-SENSE: NO  
US-08-900-230-44

TELEPHONE: 212-278-0400  
TELEFAX: 212-391-0525  
INFORMATION FOR SEQ ID NO: 44:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 45 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: linear  
HYPOTHEICAL: NO  
ANTI-SENSE: NO  
US-08-900-230-44

Query Match  
Best Local Similarity 100.0%; Score 59; DB 3; Length 45;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

QY 1 XXXXXXXXXXCCCCGCGCCCTACGCGCT 27  
DB 10 TCGCCTTACGCCGCGCCCTACGCGCT 36

RESULT 4  
US-08-900-230-52  
Sequence 52, Application US/08900230  
Patent No. 6329197  
GENERAL INFORMATION:  
APPLICANT: Baird, Jonathan A.  
TITLE OF INVENTION: DNA ENCODING GALANN GALR3 RECEPTORS AND  
NUMBER OF SEQUENCES: 59  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Cooper & Dunham LLP  
STREET: 1185 Avenue of The Americas  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 11036  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/900,230  
FILING DATE: 23-JUL-1997  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: White, John P.  
REGISTRATION NUMBER: 28,678  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212-391-0525  
TELEFAX: 212-278-0400  
INFORMATION FOR SEQ ID NO: 52:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 45 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: linear  
HYPOTHEICAL: NO  
ANTI-SENSE: NO  
US-08-900-230-52

Query Match  
Best Local Similarity 100.0%; Score 59; DB 3; Length 45;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

QY 1 XXXXXXXXXXCCCCGCGCCCTACGCGCT 27  
DB 3 CCACAGGACTGCGCCGCGCCCTACGCGCT 29

RESULT 5  
US-08-900-230-40  
Sequence 40, Application US/08900230  
Patent No. 6329197  
GENERAL INFORMATION:  
APPLICANT: Bard, Jonathan A.  
TITLE OF INVENTION: DNA ENCODING GALANIN GALR3 RECEPTORS AND  
TITLE OF INVENTION: US THEREOF  
NUMBER OF SEQUENCES: 59  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Cooper & Dunham LLP  
STREET: 1185 Avenue of The Americas  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 11036  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/900,230  
FILING DATE: 23-JUL-1997  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: White, John P.  
REGISTRATION NUMBER: 28,678  
REFERENCE/DOCKET NUMBER: 52241-C/JPM/ADM  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212-278-0400  
TELEFAX: 212-391-0525  
INFORMATION FOR SEQ ID NO: 40:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 46 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE:  
HYPOTHEICAL: NO  
ANTI-SENSE: NO  
US-08-900-230-40

Query Match 100.0%; Score 59; DB 3; Length 46;  
Best Local Similarity 14.8%; Pred. No. 2.6e+02;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

Oy 1 XXXCXXXXXXXXXXXXXXXXX 27  
Db 8 GCACTGCCACAGCCCTCCTCCTG 34

RESULT 6  
PCT-US96-08811-2  
Sequence 2, Application PC/TUS9608811  
GENERAL INFORMATION:  
APPLICANT: VERNON, Leo P., RAEI, Eppie D. and  
APPLICANT: GASANOV, Sardar E.  
TITLE OF INVENTION: Pyruvate thionin containing  
TITLE OF INVENTION: Immunotoxins and immunotoxin-like compounds  
NUMBER OF SEQUENCES: 2  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MADSON & METCALF  
STREET: 950 First Interstate Building, 170 South  
STREET: Main Street  
CITY: Salt Lake City  
STATE: Utah  
COUNTRY: USA  
ZIP: 84101  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage  
COMPUTER: IBM

OPERATING SYSTEM: MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US96/08811  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: L. Craig Metcalf  
REGISTRATION NUMBER: 31,398  
REFERENCE/DOCKET NUMBER: 1771.2.1a  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (801) 537-1790  
TELEFAX: (801) 537-1799  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 47  
TYPE: amino acids  
STRANDEDNESS: single  
TOPOLOGY: unknown  
MOLECULE TYPE: peptide  
HYPOTHEICAL:  
ANTI-SENSE: NO  
ORIGINAL SOURCE:  
ORGANISM: Pyruvate pubera  
TISSUE TYPE: leaves and nuts  
PUBLICATION INFORMATION:  
AUTHORS: Vernon, Leo P., Evelt, Gary E., Zeikus,  
AUTHORS: Regina D. and Gray, William R.  
TITLE: A Toxic Thionin from Pyruvate pubera:  
TITLE: Purification, properties, and Amino Acid Sequence  
JOURNAL: Archives of Biochemistry and Biophysics  
VOLUME: 238  
ISSUE: 1  
PAGES: 18-29  
DATE: April 1995

PCT-US96-08811-2

Query Match 100.0%; Score 59; DB 5; Length 47;  
Best Local Similarity 14.8%; Pred. No. 2.7e+02;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

Oy 1 XXXCXXXXXXXXXXXXXXXXX 27  
Db 9 ARNCYVCRLPRTISRCAKCDCKI 35

RESULT 7  
US-08-836-686B-3  
Sequence 3, Application US/0883686B  
Patent No. 6239106  
GENERAL INFORMATION:  
APPLICANT: Voerman, Gerard  
TITLE OF INVENTION: A novel family of protease inhibitors, and other  
TITLE OF INVENTION: biologic active substances  
FILE REFERENCE: 70140  
CURRENT APPLICATION NUMBER: US/08/836,686B  
CURRENT FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: EPO 94117053.2  
PRIOR FILING DATE: 1994-10-28  
PRIOR APPLICATION NUMBER: EPO 95103637.5  
PRIOR FILING DATE: 1995-03-14  
PRIOR APPLICATION NUMBER: PCT/EP95/04223  
PRIOR FILING DATE: 1995-10-27  
NUMBER OF SEQ ID NOS: 11  
SOFTWARE: Patent Ver. 2.1  
SEQ ID NO 3  
LENGTH: 50  
TYPE: PPT  
ORGANISM: Limatis nilotica  
FEATURE:  
NAME/KEY: PEPTIDE  
LOCATION: (1)..(50)  
OTHER INFORMATION: part of a proteinaceous or polypeptide-like

OTHER INFORMATION: substance from Limmatis nilotica  
US-08-836-686B-3

## Query Match

Best Local Similarity 100.0%; Score 59; DB 3; Length 50;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

QY 1 XXXXXXXXXXXXXXXXXXXXXXXX 27  
DB 24 PIRCRITCPKGFVDENGCELPTCTCKQ 50

## RESULT 8

US-08-836-686B-4  
Sequence 4, Application US/08836686B  
Patent No. 6239106  
GENERAL INFORMATION:  
APPLICANT: Voerman, Gerard  
TITLE OF INVENTION: A novel family of protease inhibitors, and other  
FILE REFERENCE: 70140  
CURRENT APPLICATION NUMBER: US/08/836,686B  
CURRENT FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: EPO 94117053.2  
PRIOR FILING DATE: 1994-10-28  
PRIOR APPLICATION NUMBER: EPO 95103637.5  
PRIOR FILING DATE: 1995-03-14  
PRIOR APPLICATION NUMBER: PCT/EP95/04223  
NUMBER OF SEQ ID NOS: 11  
SOFTWARE: Patentin Ver. 2.1  
SEQ ID NO 4  
LENGTH: 50  
TYPE: PRT  
ORGANISM: Limmatis nilotica  
FEATURE:  
NAME/KEY: PEPTIDE  
LOCATION: (1)..(50)  
OTHER INFORMATION: part of a proteinaceous or peptide-like substance  
US-08-836-686B-4

Query Match 100.0%; Score 59; DB 3; Length 50;  
Best Local Similarity 14.8%; Pred. No. 2.9e+02;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

QY 1 XXXXXXXXXXXXXXXXXXXXXXXX 27  
DB 24 PIRCRITCPKGFVDENGCELPTCTCKQ 50

## RESULT 9

US-08-836-686B-5  
Sequence 5, Application US/08836686B  
Patent No. 6239106  
GENERAL INFORMATION:  
APPLICANT: Voerman, Gerard  
TITLE OF INVENTION: A novel family of protease inhibitors, and other  
FILE REFERENCE: 70140  
CURRENT APPLICATION NUMBER: US/08/836,686B  
CURRENT FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: EPO 94117053.2  
PRIOR FILING DATE: 1994-10-28  
PRIOR APPLICATION NUMBER: EPO 95103637.5  
PRIOR FILING DATE: 1995-03-14  
PRIOR APPLICATION NUMBER: PCT/EP95/04223  
NUMBER OF SEQ ID NOS: 11  
SOFTWARE: Patentin Ver. 2.1  
SEQ ID NO 5  
LENGTH: 50  
TYPE: PRT

ORGANISM: Limmatis nilotica

FEATURE:  
NAME/KEY: PEPTIDE  
LOCATION: (1)..(50)  
OTHER INFORMATION: part of a proteinaceous or peptide-like substance  
US-08-836-686B-5

## Query Match

Best Local Similarity 100.0%; Score 59; DB 3; Length 50;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

QY 1 XXXXXXXXXXXXXXXXXXXXXXXX 27  
DB 24 PIRCRITCPKGFVDENGCELPTCTCKQ 50

## RESULT 10

US-08-836-686B-6  
Sequence 6, Application US/08836686B  
Patent No. 6239106  
GENERAL INFORMATION:  
APPLICANT: Voerman, Gerard  
TITLE OF INVENTION: A novel family of protease inhibitors, and other  
FILE REFERENCE: 70140  
CURRENT APPLICATION NUMBER: US/08/836,686B  
CURRENT FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: EPO 94117053.2  
PRIOR FILING DATE: 1994-10-28  
PRIOR APPLICATION NUMBER: EPO 95103637.5  
PRIOR FILING DATE: 1995-03-14  
PRIOR APPLICATION NUMBER: PCT/EP95/04223  
NUMBER OF SEQ ID NOS: 11  
SOFTWARE: Patentin Ver. 2.1  
SEQ ID NO 6  
LENGTH: 50  
TYPE: PRT  
ORGANISM: Limmatis nilotica  
FEATURE:  
NAME/KEY: PEPTIDE  
LOCATION: (1)..(50)  
OTHER INFORMATION: part of a proteinaceous or peptide-like substance  
US-08-836-686B-6

Query Match 100.0%; Score 59; DB 3; Length 50;  
Best Local Similarity 14.8%; Pred. No. 2.9e+02;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

QY 1 XXXXXXXXXXXXXXXXXXXXXXXX 27  
DB 24 PIRCRITCPKGFVDENGCELPTCTCKQ 50

## RESULT 11

US-08-900-230-8  
Sequence 8, Application US/08900230  
Patent No. 6329197  
GENERAL INFORMATION:  
APPLICANT: Bard, Jonathan A.  
TITLE OF INVENTION: DNA ENCODING GALANIN GALR3 RECEPTORS AND  
NUMBER OF SEQUENCES: 59  
CORRESPONDENCE ADDRESS:  
ADDRESS: Cooper & Dunham LLP  
STREET: 1185 Avenue of The Americas  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 11036  
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/900.230  
FILING DATE: 23-JUL-1997  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: White, John P.  
REGISTRATION NUMBER: 28,678  
REFERENCE/DOCKET NUMBER: 52241-C/JPW/ADM  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212-391-0525  
TELEFAX: 212-391-0525  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 50 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE:  
HYPOTHEITICAL: NO  
ANTI-SENSE: NO  
US-08-900-230-8

Query Match 100.0%; Score 59; DB 3; Length 50;  
Best Local Similarity 14.8%; Pred. No. 2.9e+02;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

Oy 1 XXXXXXXXXXXXXXXXXXXX 27  
Db 8 CACCACTGTTCATCTCAACTGGG 34

RESULT 12  
US-08-836-686B-2  
Sequence 2, Application US/08836686B  
Patent No. 6239106  
GENERAL INFORMATION:  
APPLICANT: Voetman, Gerard  
TITLE OF INVENTION: A novel family of protease inhibitors, and other  
FILE REFERENCE: 70140  
CURRENT APPLICATION NUMBER: US/08/836,686B  
CURRENT FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: EPO 94117053.2  
PRIOR FILING DATE: 1994-10-28  
PRIOR APPLICATION NUMBER: EPO 95103637.5  
PRIOR FILING DATE: 1995-03-14  
PRIOR APPLICATION NUMBER: PCT/EP95/04223  
PRIOR FILING DATE: 1995-10-27  
NUMBER OF SEQ ID NOS: 11  
SOFTWARE: Patentin Ver. 2.1  
SEQ ID NO 2  
LENGTH: 51  
TYPE: PRT  
ORGANISM: Limnatis nilotica  
FEATURE:  
NAME/KEY: PEPTIDE  
LOCATION: (1)-(30)  
OTHER INFORMATION: part of a proteinaceous or polypeptide-like  
OTHER INFORMATION: substance from Limnatis nilotica  
US-08-836-686B-2

Query Match 100.0%; Score 59; DB 3; Length 51;  
Best Local Similarity 14.8%; Pred. No. 2.9e+02;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

Oy 1 XXXXXXXXXXXXXXXXXXXX 27  
Db 24 PIRCLIFCPNGPAVDENGELPCSKH 50

RESULT 13  
US-08-369-829A-1  
Sequence 1, Application US/08369829A  
Patent No. 5861377  
GENERAL INFORMATION:  
APPLICANT: Hans Filtz  
APPLICANT: Christian Sommerhoff  
APPLICANT: Jutta Heim  
TITLE OF INVENTION: No. 5861377el Inhibitor  
NUMBER OF SEQUENCES: 20  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: No. 5861377artis Corporation  
STREET: 59 Route 10  
CITY: East Hanover  
STATE: New Jersey  
COUNTRY: US  
ZIP: 07936  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/369,829A  
FILING DATE: 6-JAN-95  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: EPO 94810006.0  
FILING DATE: 7-JAN-94  
ATTORNEY/AGENT INFORMATION:  
NAME: No. 5861377ak, Henry P.  
REGISTRATION NUMBER: 33200  
REFERENCE/DOCKET NUMBER: 4-19942/A/DIV  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (908) 277-5110  
TELEFAX: (908) 277-4306  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 55 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: Protein  
LOCATION: 1..55  
OTHER INFORMATION: /label= hirustasin  
US-08-369-829A-1

Query Match 100.0%; Score 59; DB 2; Length 55;  
Best Local Similarity 14.8%; Pred. No. 3.2e+02;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

Oy 1 XXXXXXXXXXXXXXXXXXXX 27  
Db 26 EVHCRIRCKYGLKXDENGCEYPCSKA 52

RESULT 14  
US-08-785-530-1  
Sequence 1, Application US/08785530  
Patent No. 5814480  
GENERAL INFORMATION:  
APPLICANT: Hillman, Jennifer L.  
APPLICANT: Goli, Surya K.  
TITLE OF INVENTION: A NOVEL HUMAN METALLOTHIONEIN  
NUMBER OF SEQUENCES: 6  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA

```

: ZIP: 94304
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: COMPUTER: IBM Compatible
: OPERATING SYSTEM: DOS
: SOFTWARE: FASTSEQ for Windows Version 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/785,530
: FILING DATE: Herewith
: CLASSIFICATION: 514
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER:
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Billings, Lucy J.
: REGISTRATION NUMBER: 36,749
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 415-855-0555
: TELEFAX: 415-845-4166
: TELEX:
: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 61 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: IMMEDIATE SOURCE:
: LIBRARY: Consensus
: CLONE: 977891
: US-08-785-530-1

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Query Match      100.0%; Score 59; DB 2; Length 61;
Best Local Similarity 18.5%; Pred. No. 3.5e+02;
Matches 5; Conservative 22; Mismatches 0; Indels 0; Gaps 0;
QY 1 XXXCXXCXXXXXXXXXXXXCXXCXX 27
Db 26 CTXCKKCCSCCPVGCACAKAGCVCCKG 52

```

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RESULT 15
US-08-785-530-3
: Sequence 3, Application US/08785530
: Patent No. 5814480
: GENERAL INFORMATION:
: APPLICANT: Hillman, Jennifer L.
: TITLE OF INVENTION: A NOVEL HUMAN METALLOTHIONINE
: NUMBER OF SEQUENCES: 6
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Incyte Pharmaceuticals, Inc.
: STREET: 3174 Porter Drive
: CITY: Palo Alto
: STATE: CA
: COUNTRY: USA
: ZIP: 94304
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: COMPUTER: IBM Compatible
: OPERATING SYSTEM: DOS
: SOFTWARE: FASTSEQ for Windows Version 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/785,530
: FILING DATE: Herewith
: CLASSIFICATION: 514
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER:
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Billings, Lucy J.
: REGISTRATION NUMBER: 36,749
: REFERENCE/DOCKET NUMBER: PF-0194 US

```

```

: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 415-855-0555
: TELEFAX: 415-845-4166
: TELEX:
: INFORMATION FOR SEQ ID NO: 3:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 61 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: IMMEDIATE SOURCE:
: LIBRARY: GenBank
: CLONE: 386962
: US-08-785-530-3

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Query Match      100.0%; Score 59; DB 2; Length 61;
Best Local Similarity 14.8%; Pred. No. 3.5e+02;
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;
QY 1 XXXCXXCXXXXXXXXXXXXCXXCXX 27
Db 26 CTXCKKCCSCCPVGCACAKAGCVCCKG 52

```

Search completed: February 15, 2005, 18:03:04  
Job time : 2.6517 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 15, 2005, 17:34:20 ; Search time 4.4889 Seconds  
(without alignments)  
1965.343 Million cell updates/sec

Title: US-09-331-631A-34  
Perfect score: 59  
Sequence: 1 XXXXXXXXXXXXXXXXXXXXXXXX 27

Scoring table: BIOSUM62DX  
Gapop 10.0 , Gapext 0.5

Searched: 1376875 seqs, 326749119 residues

Total number of hits satisfying chosen parameters: 1376875

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

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4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep:\*  
5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep:\*  
6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep:\*  
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9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep:\*  
10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep:\*  
11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep:\*  
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15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep:\*  
16: /cgn2\_6/ptodata/1/pubpaa/US10D\_PUBCOMB.pep:\*  
17: /cgn2\_6/ptodata/1/pubpaa/US10E\_NEW\_PUB.pep:\*  
18: /cgn2\_6/ptodata/1/pubpaa/US11\_NEW\_PUB.pep:\*  
19: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep:\*  
20: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	59	100.0	27	9	US-09-331-631A-31
2	59	100.0	27	9	US-09-331-631A-34
3	59	100.0	27	14	US-10-147-095-31
4	59	100.0	27	14	US-10-147-095-34
5	59	100.0	29	9	US-09-883-727A-121
6	59	100.0	30	9	US-09-883-727A-53
7	59	100.0	30	9	US-09-883-727A-60
8	59	100.0	30	9	US-09-883-727A-71
9	59	100.0	30	9	US-09-883-727A-74
10	59	100.0	30	9	US-09-883-727A-77
11	59	100.0	30	9	US-09-883-727A-85
12	59	100.0	31	16	US-10-380-927-24
13	59	100.0	38	15	US-10-424-599-178866

14	59	100.0	38	16	US-10-380-927-26	Sequence 26, App1
15	59	100.0	41	15	US-10-074-978A-408	Sequence 408, App
16	59	100.0	42	15	US-10-074-978A-406	Sequence 406, App
17	59	100.0	44	15	US-10-424-599-202469	Sequence 202469,
18	59	100.0	45	8	US-08-900-230-43	Sequence 43, App1
19	59	100.0	45	8	US-08-900-230-44	Sequence 44, App1
20	59	100.0	45	8	US-08-900-230-52	Sequence 52, App1
21	59	100.0	45	15	US-10-424-599-159072	Sequence 159072,
22	59	100.0	45	15	US-10-424-599-213253	Sequence 213253,
23	59	100.0	46	8	US-08-900-230-40	Sequence 40, App1
24	59	100.0	47	14	US-10-029-386-33022	Sequence 33022, A
25	59	100.0	50	8	US-08-900-230-8	Sequence 8, App1
26	59	100.0	50	15	US-10-424-599-238220	Sequence 238220,
27	59	100.0	54	10	US-09-764-891-3402	Sequence 3402, Ap
28	59	100.0	54	14	US-10-091-572-284	Sequence 284, App
29	59	100.0	61	9	US-09-981-353-115	Sequence 115, App
30	59	100.0	61	9	US-09-981-353-120	Sequence 120, App
31	59	100.0	61	10	US-09-919-039-31	Sequence 195, App
32	59	100.0	61	10	US-09-919-039-195	Sequence 245, App
33	59	100.0	61	10	US-09-919-039-245	Sequence 232, App
34	59	100.0	61	10	US-09-919-039-272	Sequence 229, App
35	59	100.0	61	15	US-10-170-385-239	Sequence 241, App
36	59	100.0	61	15	US-10-170-385-241	Sequence 243, App
37	59	100.0	61	15	US-10-170-385-243	Sequence 265, App
38	59	100.0	61	15	US-10-170-385-265	Sequence 285, App
39	59	100.0	61	15	US-10-291-172-302	Sequence 188190,
40	59	100.0	61	15	US-10-424-599-208272	Sequence 208272,
41	59	100.0	61	15	US-10-424-599-208272	Sequence 302, App
42	59	100.0	61	15	US-10-221-778-302	Sequence 445, App
43	59	100.0	61	16	US-10-755-889-445	Sequence 179, App
44	59	100.0	61	16	US-10-788-792-179	Sequence 5, App1
45	59	100.0	62	15	US-10-285-876-5	

ALIGNMENTS

RESULT 1  
US-09-331-631A-31  
Sequence 31, Application US/09331631A  
Patent No. US20020168392A1  
GENERAL INFORMATION:  
APPLICANT: Manners, John M.  
APPLICANT: Marcuse, John Paul C.  
APPLICANT: Goulter, Kenneth C.  
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
FILE REFERENCE: CULIN23.001APC  
CURRENT APPLICATION NUMBER: US/09/331.631A  
CURRENT FILING DATE: 1999-06-21  
PRIOR APPLICATION NUMBER: PCT/AU97/00874  
PRIOR FILING DATE: 1997-12-22  
PRIOR APPLICATION NUMBER: AU PO 4275  
PRIOR FILING DATE: 1996-12-20  
NUMBER OF SEQ ID NOS: 40  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 31  
LENGTH: 27  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Consensus sequence for antimicrobial peptides  
OTHER INFORMATION: wherein X is any amino acid.  
US-09-331-631A-31

Query Match 100.0%; Score 59; DB 9; Length 27;  
Best Local Similarity 92.6%; Pred. No. 3.3e+02;  
Matches 25; Conservative 2; Mismatches 0; Indels 0; Gaps 0;  
DY 1 XXXXXXXXXXXXXXXXXXXXXXXX 27  
DB 1 CXXCXXXXXXXXXXXXXXXXXXXXX 27

## RESULT 2

US-09-331-631A-34  
; Sequence 34, Application US/09331631A  
; Patent No. US20020168392A1  
; GENERAL INFORMATION:  
; APPLICANT: Manners, John M.  
; APPLICANT: Marcus, John Paul  
; APPLICANT: Goulter, Kenneth C.  
; APPLICANT: Green, Jodie L.  
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
; FILE REFERENCE: CULN23.001APC  
; CURRENT APPLICATION NUMBER: US/09/331, 631A  
; PRIOR FILING DATE: 1999-06-21  
; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
; PRIOR FILING DATE: 1997-12-22  
; PRIOR APPLICATION NUMBER: AU PO 4275  
; PRIOR FILING DATE: 1996-12-20  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 34  
; LENGTH: 27  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Consensus sequence for antimicrobial peptides,  
; OTHER INFORMATION: wherein X is any amino acid and the first and  
US-09-331-631A-34

## Query Match

Best Local Similarity 100.0%; Score 59; DB 9; Length 27;  
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXXXXXXXXXXXXXXXXXXXXX 27  
Db 1 XXXXXXXXXXXXXXXXXXXXXXXX 27

## RESULT 3

US-10-147-095-31  
; Sequence 31, Application US/10147095  
; Publication No. US20030171274A1  
; GENERAL INFORMATION:  
; APPLICANT: Manners, John M.  
; APPLICANT: Marcus, John Paul  
; APPLICANT: Goulter, Kenneth C.  
; APPLICANT: Green, Jodie L.  
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
; FILE REFERENCE: CULN23.001APC  
; CURRENT APPLICATION NUMBER: US/10/147, 095  
; PRIOR FILING DATE: 2002-05-15  
; PRIOR APPLICATION NUMBER: US/09/331, 631A  
; PRIOR FILING DATE: 1999-06-21  
; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
; PRIOR FILING DATE: 1997-12-22  
; PRIOR APPLICATION NUMBER: AU PO 4275  
; PRIOR FILING DATE: 1996-12-20  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 31  
; LENGTH: 27  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Consensus sequence for antimicrobial peptides  
; OTHER INFORMATION: wherein X is any amino acid.  
US-10-147-095-31

Query Match 100.0%; Score 59; DB 14; Length 27;  
Best Local Similarity 92.6%; Pred. No. 3.3e+02;  
Matches 25; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXXXXXXXXXXXXXXXXXXXXX 27  
Db 1 CXXCXXCXXCXXCXXCXXCXXCXXC 27

## RESULT 4

US-10-147-095-34  
; Sequence 34, Application US/10147095  
; Publication No. US20030171274A1  
; GENERAL INFORMATION:  
; APPLICANT: Manners, John M.  
; APPLICANT: Marcus, John Paul  
; APPLICANT: Goulter, Kenneth C.  
; APPLICANT: Green, Jodie L.  
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
; FILE REFERENCE: CULN23.001APC  
; CURRENT APPLICATION NUMBER: US/10/147, 095  
; PRIOR FILING DATE: 2002-05-15  
; PRIOR APPLICATION NUMBER: US/09/331, 631A  
; PRIOR FILING DATE: 1999-06-21  
; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
; PRIOR FILING DATE: 1997-12-22  
; PRIOR APPLICATION NUMBER: AU PO 4275  
; PRIOR FILING DATE: 1996-12-20  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 34  
; LENGTH: 27  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Consensus sequence for antimicrobial peptides,  
; OTHER INFORMATION: wherein X is any amino acid and the first and  
US-10-147-095-34

## Query Match

Best Local Similarity 100.0%; Score 59; DB 14; Length 27;  
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXXXXXXXXXXXXXXXXXXXXX 27  
Db 1 XXXXXXXXXXXXXXXXXXXXXXXX 27

## RESULT 5

US-09-883-727A-121  
; Sequence 121, Application US/09883727A  
; Patent No. US20020102256A1  
; GENERAL INFORMATION:  
; APPLICANT: West, Robert R.  
; APPLICANT: Shepard, Paul O.  
; APPLICANT: Fox, Brian  
; TITLE OF INVENTION: Peptide and Polypeptide Inhibitors of  
; FILE REFERENCE: 00-33  
; CURRENT APPLICATION NUMBER: US/09/883, 727A  
; PRIOR FILING DATE: 2001-09-18  
; NUMBER OF SEQ ID NOS: 140  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 121  
; LENGTH: 29  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: C1s catalytic site-directed moiety  
US-09-883-727A-121

Query Match 100.0%; Score 59; DB 9; Length 29;  
Best Local Similarity 14.8%; Pred. No. 3.5e+02;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXXXXXXXXXXXXXXXXXXXXX 27



```
Db      3  GFKCRLGCTYGFKTDKKGCEAFTCNT 29
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```

RESULT 6
US-09-883-727A-53
Sequence 53, Application US/09883727A
Patent No. US20020102256A1
GENERAL INFORMATION:
APPLICANT: West, Robert R.
APPLICANT: Sheppard, Paul O.
APPLICANT: Fox Brian
TITLE OF INVENTION: Peptide and Polypeptide Inhibitors of
TITLE OF INVENTION: Complement C1s
FILE REFERENCE: 00-33
CURRENT APPLICATION NUMBER: US/09/883,727A
CURRENT FILING DATE: 2001-09-18
NUMBER OF SEQ. ID NOS. 140
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 53
LENGTH: 30
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: C1s catalytic site-directed moiety
US-09-883-727A-53

```

Query Match 100.0%; Score 59; DB 9; Length 30;  
Best Local Similarity 14.8%; Pred. No. 3.7e+02;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0

```
Oy      1 XXXXXXXXXXXXXXXXXCXXXCXXX 27
          ::|::|::::::::::|::|::|
Db       4 GFKCRLLGCTYGFKTKDKGCBAFCTCNT 30
```

RESULT 7  
 US-09-883-727A-60  
 Sequence 60, Application US/09883727A  
 Patent No. US20020102256A1  
 GENERAL INFORMATION:  
 APPLICANT: West, Robert R.  
 APPLICANT: Sheppard, Paul O.  
 APPLICANT: Fox, Brian  
 TITLE OF INVENTION: Peptide and Polypeptide Inhibitors of  
 TITLE OF INVENTION: Complement C1s  
 FILE REFERENCE: 00-33  
 CURRENT APPLICATION NUMBER: US/09/883,727A  
 CURRENT FILING DATE: 2001-09-18  
 NUMBER OF SEQ. ID NOS: 140  
 SOFTWARE: FastSeq for Windows Version 3.0  
 SEQ ID NO: 60  
 LENGTH: 30  
 TYPE: PRT  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: C1s catalytic site-directed moiety  
 US-09-883-727A-60

Query Match	100.0%;	Score 59;	DB 9;	Length 30;
Best Local Similarity	14.8%;	Pred. No. 3.7e+02;		
Matches	4;	Conservative	23;	Mismatches 0;
		Indels	0;	Gaps 0

```
Oy      1 XXXXXXXXXXXXXXXXXCCCCCXXX 27  
         ::||::|::::::::::|::|:::  
Db      4 GFKRLGCTYGFKTDKKGCEAFCTNT 30
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RESULT 8  
US-09-883-727A-71  
; Sequence 71, Application US/09883727A  
; Patent No. US2002010256A1  
; GENERAL INFORMATION:

```

1  APPLICANT: West, Robert R.
2  APPLICANT: Sheppard, Paul O.
3  APPLICANT: Fox, Brian
4  TITLE OF INVENTION: Peptide and Polypeptide Inhibitors of
5  TITLE OF INVENTION: Complement C1s
6  FILE REFERENCE: 00-33
7  CURRENT APPLICATION NUMBER: US/09/883,727A
8  CURRENT FILING DATE: 2001-09-18
9  NUMBER OF SEQ. ID NOS: 140
10 SOFTWARE: FastSeq for Windows Version 3.0
11 SEQ ID NO 71
12 LENGTH: 30
13 TYPE: PRT
14 ORGANISM: Artificial Sequence
15 FEATURE:
16 OTHER INFORMATION: C1s catalytic site-directed moiety
17 US-09-883-727A-71

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Query Match	100.0%	Score 59;	DB 9;	Length 30;
Best Local Similarity	14.8%	Pred. No. 3.7e+02;		
Matches 4;	Conservative 23;	Mismatches 0;	Gaps 0	

```

QY      1 XXXXXXXXXXXXXXXXXXXXXXXX 27
        ::||::|:::||||::|::|:::
Db      4 GPKCRLLGCTYGFKTDKKGCEAFCTCNT 30

```

```

RESULT 9
; US-09-883-727A-74
; Sequence 74, Application US/09883727A
; Patent No. US20020102256a1
; GENERAL INFORMATION:
; APPLICANT: West, Robert R.
; APPLICANT: Shepard, Paul O.
; APPLICANT: Fox, Brian
; TITLE OF INVENTION: Peptide and Polypeptide Inhibitors of
; TITLE OF INVENTION: Complement C1s
; FILE REFERENCE: 00-33
; CURRENT APPLICATION NUMBER: US/09/883,727A
; CURRENT FILING DATE: 2001-09-18
; NUMBER OF SEQ. ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 74
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: C1s catalytic site-directed moiety
; US-09-883-727A-74

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Query Match	100.0%	Score 59,	DB 9;	Length 30;
Best Local Similarity	14.8%;	Pred. NO. 3.7e+02;		
Matches 4;	Conservative 23;	Mismatches 0;	Indels 0;	Gaps 0

QY	1 XXXXXXXXXXXXXXXXXXXXXX	27
	::: ::: ::: ::: ::: ::: :::	
Dd	4 GFKCRLGCTYGFKTIDKGCBAFCTSNT	30

```

RECEIVED 10
US-09-883-727A-77
: Sequence 77, Application US/09883727A
: Patent No. US20020102256A1
: GENERAL INFORMATION:
: APPLICANT: Weet, Robert R.
: APPLICANT: Sheppard, Paul O.
: APPLICANT: Fox, Brian
: TITLE OF INVENTION: Peptide and Polypeptide Inhibitors of
: TITLE OF INVENTION: Complement C1s
: FILE REFERENCE: 00-33
: CURRENT APPLICATION NUMBER: US/09/883,727A
: CURRENT FILING DATE: 2001-09-18
: NUMBER OF SEQ ID NOS: 140

```

Podiatre

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/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 77
/ LENGTH: 30
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: C1s catalytic site-directed motely
US-09-883-727A-77
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```
Query Match
Best Local Similarity 100.0%; Score 59; DB 9; Length 30;
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;
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```
Qy 1 XXXCXXXCXXXXXXXXXXCXXCXXX 27
Db 4 GFKCRLGCTYGFMTDKKGCFAFCTSN 30
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```
RESULT 11
US-09-883-727A-85
/ Sequence 85, Application US/09883727A
/ Patent No. US20020102256A1
/ GENERAL INFORMATION:
/ APPLICANT: West, Robert R.
/ APPLICANT: Sheppard, Paul O.
/ APPLICANT: Fox, Brian
/ TITLE OF INVENTION: Peptide and Polypeptide Inhibitors of
/ FILE REFERENCE: 00-33
/ CURRENT APPLICATION NUMBER: US/09/883,727A
/ NUMBER OF SEQ ID NOS: 140
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 85
/ LENGTH: 30
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: C1s catalytic site-directed motely
US-09-883-727A-85
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```
Query Match
Best Local Similarity 100.0%; Score 59; DB 9; Length 30;
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;
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```
Qy 1 XXXCXXXCXXXXXXXXXXCXXCXXX 27
Db 4 GFKCRLGCTYGFMTDKKGCFAFCTSN 30
```

```
RESULT 12
US-10-380-927-24
/ Sequence 24, Application US/10380927
/ Publication No. US20040110165A1
/ GENERAL INFORMATION:
/ APPLICANT: Larry W. Kwak
/ APPLICANT: Arya Biragyn
/ TITLE OF INVENTION: VIRAL CHEMOKINE-ANTIGEN FUSION PROTEINS
/ FILE REFERENCE: 14014.0381U2
/ CURRENT APPLICATION NUMBER: US/10/380,927
/ PRIOR FILING DATE: 2003-12-04
/ PRIOR APPLICATION NUMBER: PCT/US01/29075
/ PRIOR FILING DATE: 2001-09-17
/ PRIOR APPLICATION NUMBER: 60/233,067
/ NUMBER OF SEQ ID NOS: 38
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 24
/ LENGTH: 31
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence = Note
```

```
/ OTHER INFORMATION: Synthetic Construct
US-10-380-927-24
```

```
Query Match
Best Local Similarity 100.0%; Score 59; DB 16; Length 31;
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;
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```
Qy 1 XXXCXXXCXXXXXXXXXXCXXCXXX 27
Db 3 AAGCTTCACGATGAGACTCTCTGCT 29
```

```
RESULT 13
US-10-424-599-178866
/ Sequence 178866, Application US/10424599
/ Publication No. US20040031072A1
/ GENERAL INFORMATION:
/ APPLICANT: La Rosa Thomas J
/ APPLICANT: Kovalic David K
/ APPLICANT: Zhou Yihua
/ APPLICANT: Cao Yongwei
/ TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
/ FILE REFERENCE: 38-21(53223)B
/ CURRENT APPLICATION NUMBER: US/10/424,599
/ PRIOR FILING DATE: 2003-04-28
/ NUMBER OF SEQ ID NOS: 285684
/ SEQ ID NO 178866
/ LENGTH: 38
/ TYPE: PRT
/ ORGANISM: Glycine max
/ FEATURE:
/ OTHER INFORMATION: Clone ID: PAT_MRT3847_132532C.1.pep
US-10-424-599-178866
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```
Query Match
Best Local Similarity 100.0%; Score 59; DB 15; Length 38;
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;
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```
Qy 1 XXXCXXXCXXXXXXXXXXCXXCXXX 27
Db 9 YCCRRKCCGCVNPELCCRLCFLVYR 35
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```
RESULT 14
US-10-380-927-26
/ Sequence 26, Application US/10380927
/ Publication No. US20040110165A1
/ GENERAL INFORMATION:
/ APPLICANT: Larry W. Kwak
/ APPLICANT: Arya Biragyn
/ TITLE OF INVENTION: VIRAL CHEMOKINE-ANTIGEN FUSION PROTEINS
/ FILE REFERENCE: 14014.0381U2
/ CURRENT APPLICATION NUMBER: US/10/380,927
/ PRIOR FILING DATE: 2003-12-04
/ PRIOR APPLICATION NUMBER: PCT/US01/29075
/ PRIOR FILING DATE: 2001-09-17
/ PRIOR APPLICATION NUMBER: 60/233,067
/ NUMBER OF SEQ ID NOS: 38
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 26
/ LENGTH: 38
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence = Note
US-10-380-927-26
```

```
Query Match
Best Local Similarity 100.0%; Score 59; DB 16; Length 38;
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 XXXXXXXXXXXXXXXXXXXXXXXX 27  
 Db 3 AAGCTTCACCATGCCCCGTCACG 29

RESULT 15

US-10-074-978A-408  
 ; Sequence 408, Application US/10074978A  
 ; Publication No. US20040010119A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Leite, Mario  
 ; APPLICANT: Spytek, Kimberly A  
 ; APPLICANT: Guo, Xiaojia (Sasha)  
 ; APPLICANT: Fernandes, Elma  
 ; APPLICANT: Li, Li  
 ; APPLICANT: Kekuda, Rameesh  
 ; APPLICANT: Liu, Xiahong  
 ; APPLICANT: Caeman, Stracie  
 ; APPLICANT: Boldog, Ferenc  
 ; APPLICANT: Patturajan, Meera  
 ; APPLICANT: Blalock, Angela  
 ; APPLICANT: Ballinger, Robert  
 ; APPLICANT: Verneet, Corine  
 ; APPLICANT: Tchernev, Velizar T  
 ; APPLICANT: Malysankar, Uriel M  
 ; APPLICANT: Gusev, Vladimir  
 ; APPLICANT: Rastelli, Luca  
 ; APPLICANT: Mezes, Peter S  
 ; APPLICANT: Ellerman, Karen  
 ; APPLICANT: Heyes, Melvin P  
 ; APPLICANT: Herrman, John  
 ; APPLICANT: Pena, Carol E A  
 ; APPLICANT: Shinkels, Richard A  
 ; APPLICANT: Taupier Jr, Raymond J  
 ; APPLICANT: Moore, No. US20040010119A11le  
 ; APPLICANT: Shenoy, Sureesh  
 ; APPLICANT: Edinger, Shlomit  
 ; APPLICANT: Gunther, Erik  
 ; APPLICANT: Stone, Dave  
 ; APPLICANT: Millet, Isabelle  
 ; APPLICANT: Peyman, John  
 ; APPLICANT: Smithson, Glenda  
 ; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME  
 ; FILE REFERENCE: 21402-269  
 ; CURRENT APPLICATION NUMBER: US/10/074,978A  
 ; PRIOR FILING DATE: 2003-01-07  
 ; PRIOR APPLICATION NUMBER: 60/268,221  
 ; PRIOR FILING DATE: 2001-02-12  
 ; PRIOR APPLICATION NUMBER: 60/335,109  
 ; PRIOR FILING DATE: 2001-10-31  
 ; PRIOR APPLICATION NUMBER: 60/312,284  
 ; PRIOR FILING DATE: 2001-08-14  
 ; PRIOR APPLICATION NUMBER: 60/268,496  
 ; PRIOR FILING DATE: 2001-02-13  
 ; PRIOR APPLICATION NUMBER: 60/276,703  
 ; PRIOR FILING DATE: 2001-03-16  
 ; PRIOR APPLICATION NUMBER: 60/330,293  
 ; PRIOR FILING DATE: 2001-10-18  
 ; PRIOR APPLICATION NUMBER: 60/322,127  
 ; PRIOR FILING DATE: 2001-11-21  
 ; PRIOR APPLICATION NUMBER: 60/280,899  
 ; PRIOR FILING DATE: 2001-04-02  
 ; PRIOR APPLICATION NUMBER: 60/310,797  
 ; PRIOR FILING DATE: 2001-08-08  
 ; PRIOR APPLICATION NUMBER: 60/268,646  
 ; PRIOR FILING DATE: 2001-02-14  
 ; Remaining Prior Application data removed - See File Wrapper or PALM.  
 ; NUMBER OF SEQ ID NOS: 547  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 408  
 ; LENGTH: 41  
 ; TYPE: PRT

; ORGANISM: Homo sapiens  
 US-10-074-978A-408

Query Match 100.0%; Score 59; DB 15; Length 41;  
 Best Local Similarity 14.8%; Pred. No. 5e+02;  
 Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXXXXXXXXXXXXXXXXXXXXX 27  
 Db 6 WSVCSVTGANGNQKRTSCGFACTATE 32

Search completed: February 15, 2005, 18:33:55  
 Job time : 5.4889 secs

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RESULT 1
US-08-810-131A-6
; Sequence 6, Application US/08810131A
; Patent No. C264944
; GENERAL INFORMATION:
; APPLICANT: Karin, Michael
; APPLICANT: Didonato, Joseph A.
; APPLICANT: Rothwarf, David M.
; APPLICANT: Hayakawa, Makio
; APPLICANT: Zandi, Ebrahim
; TITLE OF INVENTION: I-kappa-B kinase and Methods of Using
; TITLE OF INVENTION: Same
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: United States
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentln Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/810.131A
; FILING DATE: 25-FEB-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-UD 2408
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-810-131A-6
Query Match 100.0%; Score 54; DB 3; Length 24;
Best Local Similarity 18.2%; Pred.No. 1.5e+02;
Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0
1 CXXXCXXXXXXXXXXCXXXC 22
|||||:|||||:|||||:|||||:

```

Db 2 CAGCATTGCTTGAGCTCCC 23

## RESULT 2

US-09-643-657-36

Sequence 36, Application US/09643657  
Patent No. 6642024

## GENERAL INFORMATION:

APPLICANT: Diane Pennica

TITLE OF INVENTION: GUANYLATE-BINDING PROTEIN

NUMBER OF SEQUENCES: 43

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.

STREET: 1 DNA Way

CITY: South San Francisco

STATE: California

COUNTRY: USA

ZIP: 94080

## COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WinPatlin (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/643,657

FILING DATE: 17-Aug-2000

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/015,089A

FILING DATE: 29-Jan-1998

ATTORNEY/AGENT INFORMATION:

NAME: Hasak, Janet E.

REGISTRATION NUMBER: 28,616

REFERENCE/DOCKET NUMBER: P1056

TELECOMMUNICATION INFORMATION:

TELEPHONE: 650/225-1896

TELEFAX: 650/952-9881

INFORMATION FOR SEQ ID NO: 36:

SEQUENCE CHARACTERISTICS:

LENGTH: 24 amino acids

TYPE: Amino Acid

TOPOLOGY: Linear

SEQUENCE DESCRIPTION: SEQ ID NO: 36:

US-09-643-657-36

Query Match 100.0%; Score 54; DB 4; Length 24;

Best Local Similarity 18.2%; Pred. No. 1.5e+02;

Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXXXCXXC 22

Db 2 CGGACACGGCAGAGTAACATCC 23

## RESULT 3

US-09-506-978-5

Sequence 5, Application US/09506978

Patent No. 6780416

## GENERAL INFORMATION:

APPLICANT: Sperlini, Francois

TITLE OF INVENTION: NOVEL BEE VENOM POLYPEPTIDES AND METHODS OF USE THEREOF

FILE REFERENCE: 18519-001

CURRENT APPLICATION NUMBER: US/09/506,978

NUMBER OF SEQ ID NOS: 5

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 5

LENGTH: 35

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: CYSTEINE

OTHER INFORMATION: SPACING MOTIF

OTHER INFORMATION: Where any X can be any amino acid.

US-09-506-978-5

## Query Match

Best Local Similarity 95.5%; Score 54; DB 4; Length 35;

Matches 21; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXXXCXXC 22

Db 10 CXXXCXXXXXXXXXXXXCXXC 31

US-08-761-248B-11

Sequence 11, Application US/08761248B

Patent No. 5958735

## GENERAL INFORMATION:

APPLICANT: ROWLEY, DAVID R.

TITLE OF INVENTION: UROGENITAL SINUS DERIVED GROWTH

NUMBER OF SEQUENCES: 15

CORRESPONDENCE ADDRESS:

ADDRESSEE: Jenkins & Gilchrist

STREET: 1100 Louisiana, Suite 1800

CITY: Houston

STATE: TX

COUNTRY: USA

ZIP: 77002

## COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/761,248B

FILING DATE: 06-DEC-1996

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/008,348

FILING DATE: 07-DEC-1995

ATTORNEY/AGENT INFORMATION:

NAME: Turley, Charles P

REGISTRATION NUMBER: 35,723

REFERENCE/DOCKET NUMBER: 34012.6

TELECOMMUNICATION INFORMATION:

TELEPHONE: (713)9513310

TELEFAX: (713)9513314

INFORMATION FOR SEQ ID NO: 11:

SEQUENCE CHARACTERISTICS:

LENGTH: 38 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-08-761-248B-11

Query Match 100.0%; Score 54; DB 2; Length 38;

Best Local Similarity 18.2%; Pred. No. 2.3e+02;

Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXXXCXXC 22

Db 10 CTQECVDSBCADNLKCSAGC 31

US-08-036-555B-40

Sequence 40, Application US/08036555B

Patent No. 5530109

## GENERAL INFORMATION:

APPLICANT: Goodheart, Andrew; Stroobant, Paul;

APPLICANT: Minghetti, Luisa; Waterfield, Michael; Marchioni, Mark;

```

;
; APPLICANT: Chen, Maio Su; Hiles, Ian
;
; TITLE OF INVENTION: Glial Mitogenic Factors, Their
;
; NUMBER OF INVENTION: Preparation and Use
;
; NUMBER OF SEQUENCES: 184
;
; CORRESPONDENCE ADDRESS:
;
; ADDRESSEE: Felfe & Lynch
;
; STREET: 805 Third Avenue
;
; CITY: New York City
;
; STATE: New York
;
; COUNTRY: USA
;
; ZIP: 10022
;
; COMPUTER READABLE FORM:
;
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
;
; COMPUTER: IBM
;
; OPERATING SYSTEM: PC-DOS
;
; SOFTWARE: Wordperfect
;
; CURRENT APPLICATION DATA:
;
; APPLICATION NUMBER: US/08/036,555B
;
; FILING DATE: 24-MAR-1993
;
; CLASSIFICATION: 435
;
; PRIOR APPLICATION DATA:
;
; APPLICATION NUMBER: 07/965,173
;
; FILING DATE: 23-OCT-1992
;
; PRIOR APPLICATION DATA:
;
; APPLICATION NUMBER: 07/940,389
;
; FILING DATE: 03-SEP-1992
;
; PRIOR APPLICATION DATA:
;
; APPLICATION NUMBER: 07/907,138
;
; FILING DATE: 30-JUN-1992
;
; PRIOR APPLICATION DATA:
;
; APPLICATION NUMBER: 07/863,703
;
; FILING DATE: 03-APRIL-1992
;
; PRIOR APPLICATION DATA:
;
; APPLICATION NUMBER: U.K. 91 07566.3
;
; FILING DATE: 10-APRIL-1991
;
; ATTORNEY/AGENT INFORMATION:
;
; NAME: Tsai, Christine H.
;
; REGISTRATION NUMBER: 34,266
;
; REFERENCE/DOCKET NUMBER: LUD 5250.4
;
; TELECOMMUNICATION INFORMATION:
;
; TELEPHONE: (212) 688-9200
;
; TELEFAX: (212) 838-3884
;
; INFORMATION FOR SEQ ID NO: 40:
;
; SEQUENCE CHARACTERISTICS:
;
; LENGTH: 39
;
; TYPE: amino acid
;
; STRANDEDNESS:
;
; TOPOLOGY: linear
;
; US-08-036-555B-40
;
;
; Query Match 100.0%; Score 54; DB 1; Length 39;
; Best Local Similarity 18.2%; Pred. No. 2.4e+02;
; Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0;
;
; QY 1 CXXXCXXXXXXXXXXCXXC 22
;
; Db 13 CACRCAGAGGCTCTCTCCTC 34
;
;
; RESULT 6
;
; US-08-469-569-40
;
; Sequence 40, Application US/08469569
;
; Patent No. 5606032
;
; GENERAL INFORMATION:
;
; APPLICANT: Goodearl, Andrew; Stroobant, Paul;
;
; APPLICANT: Mingeletti, Luisa; Waterfield, Michael; Marchioni, Mark;
;
; APPLICANT: Chen, Maio Su; Hiles, Ian
;
; TITLE OF INVENTION: Glial Mitogenic Factors, Their
;
; NUMBER OF SEQUENCES: 184
;
; CORRESPONDENCE ADDRESS:
;
; ADDRESSEE: Felfe & Lynch
;
; STREET: 805 Third Avenue
;
; CITY: New York City
;
; STATE: New York
;
; COUNTRY: USA
;
; ZIP: 10022
;
; COMPUTER READABLE FORM:
;
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
;
; COMPUTER: IBM
;
; OPERATING SYSTEM: PC-DOS
;
; SOFTWARE: Wordperfect
;
; CURRENT APPLICATION DATA:
;
; APPLICATION NUMBER: US/08/469,569
;
; FILING DATE: 06-JUN-1995
;
; CLASSIFICATION: 530
;
; PRIOR APPLICATION DATA:
;
; APPLICATION NUMBER: 08/036,555
;
; FILING DATE: 24-MAR-1993
;
; APPLICATION NUMBER: 07/965,173
;
; FILING DATE: 23-OCT-1992
;
; PRIOR APPLICATION DATA:
;
; APPLICATION NUMBER: 07/940,389
;
; FILING DATE: 03-SEP-1992
;
; PRIOR APPLICATION DATA:
;
; APPLICATION NUMBER: 07/907,138
;
; FILING DATE: 30-JUN-1992
;
; PRIOR APPLICATION DATA:
;
; APPLICATION NUMBER: 07/863,703
;
; FILING DATE: 03-APRIL-1992
;
; PRIOR APPLICATION DATA:
;
; APPLICATION NUMBER: U.K. 91 07566.3
;
; FILING DATE: 10-APRIL-1991
;
; ATTORNEY/AGENT INFORMATION:
;
; NAME: Tsai, Christine H.
;
; REGISTRATION NUMBER: 34,266
;
; REFERENCE/DOCKET NUMBER: LUD 5250.4
;
; TELECOMMUNICATION INFORMATION:
;
; TELEPHONE: (212) 688-9200
;
; TELEFAX: (212) 838-3884
;
; INFORMATION FOR SEQ ID NO: 40:
;
; SEQUENCE CHARACTERISTICS:
;
; LENGTH: 39
;
; TYPE: amino acid
;
; STRANDEDNESS:
;
; TOPOLOGY: linear
;
; US-08-469-569-40
;
;
; Query Match 100.0%; Score 54; DB 1; Length 39;
; Best Local Similarity 18.2%; Pred. No. 2.4e+02;
; Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0;
;
; QY 1 CXXXCXXXXXXXXXXCXXC 22
;
; Db 13 CACRCAGAGGCTCTCTCCTC 34
;
;
; RESULT 7
;
; US-08-390-882A-1
;
; Sequence 1, Application US/08390882A
;
; Patent No. 5688764
;
; GENERAL INFORMATION:
;
; APPLICANT: Kral, Robert M. Jr.; Krapcho, Karen; Johnson, Janice
;
; TITLE OF INVENTION: Insecticidal Peptides from Spider Venom
;
; NUMBER OF SEQUENCES: 7
;
; CORRESPONDENCE ADDRESS:
;
; ADDRESSEE: MADSON & METCALF
;
; STREET: 950 FIRST INTERSTATE BUILDING
;
; STREET: 170 SOUTH MAIN STREET
;
; CITY: SALT LAKE CITY
;
; STATE: UTAH
;
; COUNTRY: USA
;
; ZIP: 84101
;
; COMPUTER READABLE FORM:
;
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
;
; COMPUTER: IBM
```

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;
; CITY: New York City
;
; STATE: New York
;
; COUNTRY: USA
;
; ZIP: 10022
;
; COMPUTER READABLE FORM:
;
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
;
; COMPUTER: IBM
;
; OPERATING SYSTEM: PC-DOS
;
; SOFTWARE: Wordperfect
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; CURRENT APPLICATION DATA:
;
; APPLICATION NUMBER: US/08/469,569
;
; FILING DATE: 06-JUN-1995
;
; CLASSIFICATION: 530
;
; PRIOR APPLICATION DATA:
;
; APPLICATION NUMBER: 08/036,555
;
; FILING DATE: 24-MAR-1993
;
; APPLICATION NUMBER: 07/965,173
;
; FILING DATE: 23-OCT-1992
;
; PRIOR APPLICATION DATA:
;
; APPLICATION NUMBER: 07/940,389
;
; FILING DATE: 03-SEP-1992
;
; PRIOR APPLICATION DATA:
;
; APPLICATION NUMBER: 07/907,138
;
; FILING DATE: 30-JUN-1992
;
; PRIOR APPLICATION DATA:
;
; APPLICATION NUMBER: 07/863,703
;
; FILING DATE: 03-APRIL-1992
;
; PRIOR APPLICATION DATA:
;
; APPLICATION NUMBER: U.K. 91 07566.3
;
; FILING DATE: 10-APRIL-1991
;
; ATTORNEY/AGENT INFORMATION:
;
; NAME: Tsai, Christine H.
;
; REGISTRATION NUMBER: 34,266
;
; REFERENCE/DOCKET NUMBER: LUD 5250.4
;
; TELECOMMUNICATION INFORMATION:
;
; TELEPHONE: (212) 688-9200
;
; TELEFAX: (212) 838-3884
;
; INFORMATION FOR SEQ ID NO: 40:
;
; SEQUENCE CHARACTERISTICS:
;
; LENGTH: 39
;
; TYPE: amino acid
;
; STRANDEDNESS:
;
; TOPOLOGY: linear
;
; US-08-469-569-40
;
;
; Query Match 100.0%; Score 54; DB 1; Length 39;
; Best Local Similarity 18.2%; Pred. No. 2.4e+02;
; Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0;
;
; QY 1 CXXXCXXXXXXXXXXCXXC 22
;
; Db 13 CACRCAGAGGCTCTCTCCTC 34
;
;
; RESULT 7
;
; US-08-390-882A-1
;
; Sequence 1, Application US/08390882A
;
; Patent No. 5688764
;
; GENERAL INFORMATION:
;
; APPLICANT: Kral, Robert M. Jr.; Krapcho, Karen; Johnson, Janice
;
; TITLE OF INVENTION: Insecticidal Peptides from Spider Venom
;
; NUMBER OF SEQUENCES: 7
;
; CORRESPONDENCE ADDRESS:
;
; ADDRESSEE: MADSON & METCALF
;
; STREET: 950 FIRST INTERSTATE BUILDING
;
; STREET: 170 SOUTH MAIN STREET
;
; CITY: SALT LAKE CITY
;
; STATE: UTAH
;
; COUNTRY: USA
;
; ZIP: 84101
;
; COMPUTER READABLE FORM:
;
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
;
; COMPUTER: IBM
```





Oy 1 CXXXXXXXXXXXXXXXCXXC 22  
Db 15 CCGCGCFCWCTCRLRMDPCSKC 36

## RESULT 10

US-08-249-322A-40  
; Sequence 40, Application US/08249322A  
; Patent No. 5716930  
; GENERAL INFORMATION:  
; APPLICANT: Goodearl, Andrew; Stroobant, Paul;  
; APPLICANT: Minghetti, Luisa; Waterfield, Michael; Marchioni, Mark;  
; APPLICANT: Chen, Maio Su; Hiles, Ian  
; TITLE OF INVENTION: Glial Mitogenic Factors, Their  
; NUMBER OF SEQUENCES: 184  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Felfe & Lynch  
; STREET: 805 Third Avenue  
; CITY: New York City  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 10022  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage  
; COMPUTER: IBM  
; OPERATING SYSTEM: PC-DOS  
; SOFTWARE: Wordperfect  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/249,322A  
; FILING DATE: 26-MAY-1994  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/036,555  
; FILING DATE: 24-MAR-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/965,173  
; FILING DATE: 23-OCT-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/940,389  
; FILING DATE: 03-SEP-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/907,138  
; FILING DATE: 30-JUN-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/863,703  
; FILING DATE: 03-APRIL-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: U.K. 91 07566.3  
; FILING DATE: 10-APRIL-1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Teal, Christine H.  
; REGISTRATION NUMBER: 34,266  
; REFERENCE/DOCKET NUMBER: LUD 250.4  
; TELEPHONE: (212) 688-9200  
; TELEFAX: (212) 838-3684  
; INFORMATION FOR SEQ ID NO: 40:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 39  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
US-08-249-322A-40

Query Match 100.0%; Score 54; DB 1; Length 39;

Best Local Similarity 18.2%; Pred.No. 2.4e+02;  
Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0;

Oy 1 CXXXXXXXXXXXXXXXCXXC 22  
Db 13 CACRCAGAAAGCTCTCTCCTTC 34

RESULT 11  
US-08-469-526A-40  
; Sequence 40, Application US/08469526A  
; Patent No. 5792849

; GENERAL INFORMATION:  
; APPLICANT: Goodearl, Andrew  
; APPLICANT: Stroobant, Paul  
; APPLICANT: Minghetti, Luisa  
; APPLICANT: Waterfield, Michael  
; APPLICANT: Marchioni, Mark  
; APPLICANT: Chen, Maio Su  
; APPLICANT: Hiles, Ian  
; TITLE OF INVENTION: GLIAL MITOGENIC FACTORS, THEIR  
; NUMBER OF SEQUENCES: 187  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Clark & Elbing LLP  
; STREET: 176 Federal Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02110  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: Fastseq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/469,526A  
; FILING DATE: 06 June 1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/036,555  
; FILING DATE: 24-MAR-1993  
; APPLICATION NUMBER: 07/965,173  
; FILING DATE: 23-OCT-1992  
; APPLICATION NUMBER: 07/940,389  
; FILING DATE: 03-SEP-1992  
; APPLICATION NUMBER: 07/907,138  
; FILING DATE: 03-JUN-1992  
; APPLICATION NUMBER: 07/863,703  
; FILING DATE: 03-APRIL-1992  
; APPLICATION NUMBER: U.K. 91 07566.3  
; FILING DATE: 10-APR-1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Bieker-Brady, Kristina  
; REGISTRATION NUMBER: 39,109  
; REFERENCE/DOCKET NUMBER: 04585/00200A  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-428-7045  
; TELEFAX: 617-428-7045  
; INFORMATION FOR SEQ ID NO: 40:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 39  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-469-526A-40

Query Match 100.0%; Score 54; DB 1; Length 39;

Best Local Similarity 18.2%; Pred.No. 2.4e+02;  
Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0;

Oy 1 CXXXXXXXXXXXXXXXCXXC 22  
Db 13 CACRCAGAAAGCTCTCTCCTTC 34

## RESULT 12

US-08-734-591A-40  
; Sequence 40, Application US/08734591A

US-08-469-660-40  
/ Sequence 40, Application US/08469660  
/ Patent No. 5876973  
/ GENERAL INFORMATION:  
/ APPLICANT: Gwynne, David I.; Marchionni, Mark;  
/ APPLICANT: McBurney, Robert N.  
/ TITLE OF INVENTION: INHIBITORS OF CELL PROLIFERATION,  
/ TITLE OF INVENTION: THEIR PREPARATION AND USE  
/ NUMBER OF SEQUENCES: 184  
/ CORRESPONDENCE ADDRESS:  
/ ADDRESSEE: Fish & Richardson  
/ STREET: 225 Franklin Street  
/ CITY: Boston  
/ STATE: Massachusetts  
/ ZIP: 0211-2804  
/ COMPUTER READABLE FORM:  
/ MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage  
/ COMPUTER: IBM  
/ OPERATING SYSTEM: PC-DOS  
/ SOFTWARE: Wordperfect  
/ CURRENT APPLICATION DATA:  
/ APPLICATION NUMBER: US/08/469,660  
/ FILING DATE:

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1 CLASSIFICATION: 435
2 PRIOR APPLICATION DATA:
3 APPLICATION NUMBER: 08/011,396
4 FILING DATE: 29-JAN-1993
5 PRIOR APPLICATION DATA:
6 APPLICATION NUMBER: 07/984,085
7 FILING DATE: 01-DEC-1992
8 PRIOR APPLICATION DATA:
9 APPLICATION NUMBER: 07/951,747
10 FILING DATE: 25-SEP-1992
11 PRIOR APPLICATION DATA:
12 APPLICATION NUMBER: 07/927,337
13 FILING DATE: 10-AUG-1992
14 ATTORNEY/AGENT INFORMATION:
15 NAME: Clark, Paul T.
16 REGISTRATION NUMBER: 30,162
17 REFERENCE/DOCKET NUMBER: 04585/017004
18 TELECOMMUNICATION INFORMATION:
19 TELEPHONE: (617) 542-5070
20 TELEFAX: 200154
21 INFORMATION FOR SEQ ID NO: 40:
22 SEQUENCE CHARACTERISTICS:
23 LENGTH: 39
24 TYPE: amino acid
25 STRANDEDNESS:
26 TOPOLOGY: linear
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Query Match	100.0%;	Score 54;	DB 2;	Length 39;
Best Local Similarity	18.2%;	Pred. No. 2.4e+02;		
Matches	4;	Conservative 18;	Mismatches 0.	Indels 0

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Db      13 CACRCAGAGGTCTTCTCCTTC 34

RESULT 14
US-08-735-021-40
Sequence 40, Application US/08735021B
Patent No. 6194377
GENERAL INFORMATION:
APPLICANT: GOODBEARL, ANDREW
APPLICANT: STROOBEANT, PAUL
APPLICANT: MINGHEITZ, LUISA
APPLICANT: WATERFIELD, MICHAEL
APPLICANT: MARCHIONNI, MARK
APPLICANT: CHEN, MARIO S.
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1      APPLICATION NUMBER: 07/965,173
2      FILING DATE: 23-OCT-1992
3      PRIOR APPLICATION DATA:
4      APPLICATION NUMBER: 07/940,389
5      FILING DATE: 03-SEP-1992
6      PRIOR APPLICATION DATA:
7      APPLICATION NUMBER: 07/907,138
8      FILING DATE: 30-JUN-1992
9      PRIOR APPLICATION DATA:
10     APPLICATION NUMBER: 07/863,703
11     FILING DATE: 03-APR-1992
12     PRIOR APPLICATION DATA:
13     APPLICATION NUMBER: UK 91 07566.3
14     FILING DATE: 10-APR-1991
15     ATTORNEY/AGENT INFORMATION:
16     NAME: Bleker-Brady, Kristina
17     REGISTRATION NUMBER: 39,109
18     REFERENCE/DOCKET NUMBER: 04585/0020002
19     TELECOMMUNICATION INFORMATION:
20     TELEPHONE: (617) 428-0200
21     TELEFAX: (617) 428-7045
22     TEXEL:
23     INFORMATION FOR SEQ ID NO: 40:
24     SEQUENCE CHARACTERISTICS:
25         LENGTH: 39
26         TYPE: amino acid
27         STRANDEDNESS:
28         TOPOLOGY: linear
29
30     OS-08-734-664A-40

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Query Match	100.0%;	Score 54;	DB 3;	Length 39;
Best Local Similarity	18.2%;	Pred. No. 2.4e+02;		
Matches	4;	Conservative	18;	Mismatches 0;
			Indels	0;
			Gaps	0
QY	1	XXXXXXXXXXXXXXXXXX	XXXX	22
		:::		
Db	13	CACRAGAGGCTTCCTCCTTC	34	

Search completed: February 15, 2005, 18:03:05  
Job time : 2.34583 secs

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GenCore version 5.1.6  
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## OM protein - protein search, using sw model

Run on: February 15, 2005, 17:34:20 ; Search time 3.65762 Seconds

(without alignments)  
1965.343 Million cell updates/sec

Title: US-09-331-631A-39

Perfect score: 54  
Sequence: 1 CXXXXXXXXXXXXXXXXCXXC 22Scoring table: BLOSUM62DX  
Gapop 10.0 , Gapext 0.5

Searched: 1376875 seqs, 326749119 residues

Total number of hits satisfying chosen parameters: 1376875

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

## Database :

Published Applications AA:\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/1/pubpaa/US10D\_PUBCOMB.pep.\*
- 17: /cgn2\_6/ptodata/1/pubpaa/US10D\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/1/pubpaa/US11\_NEW\_PUB.pep.\*
- 19: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 20: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	54	100.0	22 9 US-09-331-631A-39	Sequence 39, App1
2	54	100.0	22 14 US-10-147-095-39	Sequence 36, App1
3	54	100.0	26 15 US-10-381-112-225	Sequence 225, App
4	54	100.0	26 15 US-10-381-112-551	Sequence 551, App
5	54	100.0	26 15 US-10-381-112-552	Sequence 552, App
6	54	100.0	26 15 US-10-381-112-553	Sequence 553, App
7	54	100.0	26 15 US-10-381-112-554	Sequence 554, App
8	54	100.0	26 15 US-10-381-112-555	Sequence 555, App
9	54	100.0	26 16 US-10-714-353-59	Sequence 59, App1
10	54	100.0	27 14 US-10-097-065-580	Sequence 580, App
11	54	100.0	27 15 US-10-372-876-580	Sequence 580, App
12	54	100.0	29 9 US-09-331-631A-33	Sequence 33, App1
13	54	100.0	29 9 US-09-331-631A-36	Sequence 36, App1

14	54	100.0	29 14 US-10-147-095-33	Sequence 33, App1
15	54	100.0	29 14 US-10-147-095-36	Sequence 36, App1
16	54	100.0	29 14 US-10-332-765-16	Sequence 16, App1
17	54	100.0	33 14 US-10-252-734-37	Sequence 37, App1
18	54	100.0	35 14 US-10-174-151-5	Sequence 5, App1
19	54	100.0	35 15 US-10-204-145-5	Sequence 5, App1
20	54	100.0	35 15 US-10-321-807-132	Sequence 132, App
21	54	100.0	36 16 US-10-321-807-132	Sequence 132, App
22	54	100.0	36 16 US-10-314-048A-132	Sequence 132, App
23	54	100.0	36 16 US-10-897-815-132	Sequence 132, App
24	54	100.0	38 14 US-10-092-771-30	Sequence 30, App1
25	54	100.0	38 14 US-10-252-340-11	Sequence 11, App1
26	54	100.0	38 8 US-08-736-019-40	Sequence 40, App1
27	54	100.0	39 14 US-10-092-771-32	Sequence 32, App1
28	54	100.0	39 14 US-10-195-730-172	Sequence 172, App
29	54	100.0	39 16 US-10-332-765-42	Sequence 42, App1
30	54	100.0	39 16 US-10-799-747-172	Sequence 172, App
31	54	100.0	42 14 US-10-252-340-15	Sequence 15, App1
32	54	100.0	42 16 US-10-437-863-176365	Sequence 176365,
33	54	100.0	43 14 US-10-252-340-13	Sequence 13, App1
34	54	100.0	44 14 US-10-252-340-12	Sequence 12, App1
35	54	100.0	45 8 US-08-900-230-7	Sequence 7, App1
36	54	100.0	45 8 US-08-900-230-11	Sequence 11, App1
37	54	100.0	45 8 US-08-900-230-15	Sequence 15, App1
38	54	100.0	45 8 US-08-900-230-52	Sequence 52, App1
39	54	100.0	45 8 US-08-900-230-53	Sequence 53, App1
40	54	100.0	45 15 US-10-424-599-159072	Sequence 159072,
41	54	100.0	46 8 US-08-900-230-40	Sequence 40, App1
42	54	100.0	47 14 US-10-029-386-33022	Sequence 33022, A
43	54	100.0	49 9 US-09-864-761-14921	Sequence 34921, A
44	54	100.0	49 15 US-10-424-599-173959	Sequence 173959,
45	54	100.0	50 15 US-10-424-599-162084	Sequence 162084,

## ALIGNMENTS

RESULT 1  
US-09-331-631A-39  
; Sequence 39, Application US/09331631A  
; Patent No. US20020168392A1  
; GENERAL INFORMATION:  
; APPLICANT: Manners, John M.  
; APPLICANT: Marcus, John Paul  
; APPLICANT: Goulter, Kenneth C.  
; APPLICANT: Green, Jodie L.  
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
; FILE REFERENCE: CULIN23.001APC  
; CURRENT APPLICATION NUMBER: US/09/331.631A  
; PRIOR FILING DATE: 1999-06-21  
; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
; PRIOR FILING DATE: 1997-12-22  
; PRIOR APPLICATION NUMBER: AU PO 4275  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 39  
; LENGTH: 22  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Consensus sequence for antimicrobial peptides  
; OTHER INFORMATION: wherein X is any amino acid.  
US-09-331-631A-39

Query Match 100.0%; Score 54; DB 9; Length 22;  
Best Local Similarity 100.0%; Pred. No. 4.8e+02;  
Matches 22; Conservative 0; Mismatches 0; Indels 0;  
Gy 1 CXXXXXXXXXXXXXXXXCXXC 22  
Db 1 CXXXXXXXXXXXXXXXXCXXC 22

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RESULT 2
US-10-147-095-39
; Sequence 39, Application US/10147095
; Publication No. US20030171274A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie L.
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; FILE REFERENCE: CULN23.001APC
; CURRENT APPLICATION NUMBER: US/10/147,095
; CURRENT FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: US/09/331,631A
; PRIOR FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: PCT/AU97/00874
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: AU PO 4275
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 39
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Consensus sequence for antimicrobial peptides
US-10-147-095-39
; OTHER INFORMATION: wherein X is any amino acid.
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Query Match      100.0%; Score 54; DB 14; Length 22;
Best Local Similarity 100.0%; Pred. No. 4.8e+02;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CXXXXXXXXXXXXXXXXCXXC 22
Db      1 CXXXXXXXXXXXXXXXXCXXC 22

RESULT 3
US-10-381-112-225
; Sequence 225, Application US/10381112
; Publication No. US20040086942A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Nakamura, Gerald R.
; APPLICANT: Reynolds, Mark E.
; APPLICANT: Starovaanik, Melissa A.
; TITLE OF INVENTION: IGE RECEPTOR ANTAGONISTS
; FILE REFERENCE: P1816R1
; CURRENT APPLICATION NUMBER: US/10/381,112
; CURRENT FILING DATE: 2003-10-27
; PRIOR APPLICATION NUMBER: US 60/278,540
; PRIOR FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: US 60/235,353
; PRIOR FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 595
; SEQ ID NO 225
; LENGTH: 26
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: IGE receptor binding peptide shown in Example 12, Table 9. IGE189
; NAME/KEY: MOD_RES
; LOCATION: 26
; OTHER INFORMATION: C-terminal amidation
US-10-381-112-225
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Query Match      100.0%; Score 54; DB 15; Length 26;
Best Local Similarity 18.2%; Pred. No. 5.5e+02;
Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 CXXXXXXXXXXXXXXXXCXXC 22
Db      3 CPHFCYELDYEMDGQLCPDVC 24
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```
RESULT 4
US-10-381-112-551
; Sequence 551, Application US/10381112
; Publication No. US20040086942A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Nakamura, Gerald R.
; APPLICANT: Reynolds, Mark E.
; APPLICANT: Starovaanik, Melissa A.
; TITLE OF INVENTION: IGE RECEPTOR ANTAGONISTS
; FILE REFERENCE: P1816R1
; CURRENT APPLICATION NUMBER: US/10/381,112
; CURRENT FILING DATE: 2003-10-27
; PRIOR APPLICATION NUMBER: US 60/278,540
; PRIOR FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: US 60/235,353
; PRIOR FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 595
; SEQ ID NO 551
; LENGTH: 26
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial Sequence 719-11 shown in Figure 5
US-10-381-112-551
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Query Match      100.0%; Score 54; DB 15; Length 26;
Best Local Similarity 18.2%; Pred. No. 5.5e+02;
Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0;

QY      1 CXXXXXXXXXXXXXXXXCXXC 22
Db      3 CPHFCYELDYEMDGQLCPDVC 24
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RESULT 5
US-10-381-112-552
; Sequence 552, Application US/10381112
; Publication No. US20040086942A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Nakamura, Gerald R.
; APPLICANT: Reynolds, Mark E.
; APPLICANT: Starovaanik, Melissa A.
; TITLE OF INVENTION: IGE RECEPTOR ANTAGONISTS
; FILE REFERENCE: P1816R1
; CURRENT APPLICATION NUMBER: US/10/381,112
; CURRENT FILING DATE: 2003-10-27
; PRIOR APPLICATION NUMBER: US 60/278,540
; PRIOR FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: US 60/235,353
; PRIOR FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 595
; SEQ ID NO 552
; LENGTH: 26
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial Sequence 719-13 shown in Figure 5
US-10-381-112-552
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```
Query Match      100.0%; Score 54; DB 15; Length 26;
Best Local Similarity 18.2%; Pred. No. 5.5e+02;
Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0;

QY      1 CXXXXXXXXXXXXXXXXCXXC 22
Db      3 CPHFCYELDYEMDGQLCPDVC 24
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```
/ Publication No. US20030055236A1
/ GENERAL INFORMATION:
/ APPLICANT: Moore, Paul A. et al.
/ TITLE OF INVENTION: 110 Human Secreted Proteins
/ FILE REFERENCE: P2021P1
/ CURRENT APPLICATION NUMBER: US/10/097,065
/ PRIOR FILING DATE: 2002-03-14
/ PRIOR APPLICATION NUMBER: PCT/US98/27059
/ PRIOR FILING DATE: 1998-12-17
/ PRIOR APPLICATION NUMBER: 60/070,923
/ PRIOR FILING DATE: 1997-12-18
/ PRIOR APPLICATION NUMBER: 60/068,007
/ PRIOR FILING DATE: 1997-12-18
/ PRIOR APPLICATION NUMBER: 60/068,057
/ PRIOR FILING DATE: 1997-12-18
/ PRIOR APPLICATION NUMBER: 60/068,006
/ PRIOR FILING DATE: 1997-12-18
/ PRIOR APPLICATION NUMBER: 60/068,369
/ PRIOR FILING DATE: 1997-12-19
/ PRIOR APPLICATION NUMBER: 60/068,367
/ PRIOR FILING DATE: 1997-12-19
/ PRIOR APPLICATION NUMBER: 60/068,368
/ PRIOR FILING DATE: 1997-12-19
/ PRIOR APPLICATION NUMBER: 60/068,169
/ PRIOR FILING DATE: 1997-12-19
/ PRIOR APPLICATION NUMBER: 60/068,053
/ PRIOR FILING DATE: 1997-12-18
/ PRIOR APPLICATION NUMBER: 60/068,064
/ PRIOR FILING DATE: 1997-12-18
/ PRIOR APPLICATION NUMBER: 60/068,054
/ PRIOR FILING DATE: 1997-12-18
/ PRIOR APPLICATION NUMBER: 60/068,008
/ PRIOR FILING DATE: 1997-12-18
/ PRIOR APPLICATION NUMBER: 60/068,365
/ PRIOR FILING DATE: 1997-12-19
/ NUMBER OF SEQ ID NOS: 672
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 580
/ LENGTH: 27
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-097-065-580

Query Match
Best Local Similarity 100.0%; Score 54; DB 14; Length 27;
Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXCXXC 22
DB 4 CPSCCLPSRPGCSRRCRCAPSC 25

RESULT 11
US-10-372-876-580
/ Sequence 580, Application US/10372876
/ Publication No. US2003024071A1
/ GENERAL INFORMATION:
/ APPLICANT: Moore, Paul A. et al.
/ TITLE OF INVENTION: 110 Human Secreted Proteins
/ FILE REFERENCE: P2021P1
/ CURRENT APPLICATION NUMBER: US/10/372,876
/ PRIOR FILING DATE: 2003-02-26
/ PRIOR APPLICATION NUMBER: 09/334,595
/ PRIOR FILING DATE: 1999-06-17
/ PRIOR APPLICATION NUMBER: PCT/US98/27059
/ PRIOR FILING DATE: 1998-12-17
/ PRIOR APPLICATION NUMBER: 60/070,923
/ PRIOR FILING DATE: 1997-12-18
/ PRIOR APPLICATION NUMBER: 60/068,007
/ PRIOR FILING DATE: 1997-12-18
/ PRIOR APPLICATION NUMBER: 60/068,057
/ PRIOR FILING DATE: 1997-12-18
/ PRIOR APPLICATION NUMBER: 60/068,006
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/ PRIOR FILING DATE: 1997-12-18
/ PRIOR APPLICATION NUMBER: 60/068,369
/ PRIOR FILING DATE: 1997-12-19
/ PRIOR APPLICATION NUMBER: 60/068,367
/ PRIOR FILING DATE: 1997-12-19
/ PRIOR APPLICATION NUMBER: 60/068,368
/ PRIOR FILING DATE: 1997-12-19
/ PRIOR APPLICATION NUMBER: 60/068,169
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 672
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 580
/ LENGTH: 27
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-372-876-580

Query Match
Best Local Similarity 100.0%; Score 54; DB 15; Length 27;
Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXCXXC 22
DB 4 CPSCCLPSRPGCSRRCRCAPSC 25

RESULT 12
US-09-331-631A-33
/ Sequence 33, Application US/09331631A
/ Patent No. US20020168392A1
/ GENERAL INFORMATION:
/ APPLICANT: Manners, John M.
/ APPLICANT: Marcus, John Paul
/ APPLICANT: Goulter, Kenneth C.
/ APPLICANT: Green, Jodie L.
/ TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
/ FILE REFERENCE: CULIN23.001APC
/ CURRENT APPLICATION NUMBER: US/09/331,631A
/ PRIOR FILING DATE: 1999-06-21
/ PRIOR APPLICATION NUMBER: PCT/AU97/00874
/ PRIOR FILING DATE: 1997-12-22
/ PRIOR APPLICATION NUMBER: AU PO 4275
/ PRIOR FILING DATE: 1996-12-20
/ NUMBER OF SEQ ID NOS: 40
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 33
/ LENGTH: 29
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Consensus sequence for antimicrobial peptides
US-09-331-631A-33

Query Match
Best Local Similarity 100.0%; Score 54; DB 9; Length 29;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXCXXC 22
DB 4 CXXXCXXXXXXXXXXCXXC 25

RESULT 13
US-09-331-631A-36
/ Sequence 36, Application US/09331631A
/ Patent No. US20020168392A1
/ GENERAL INFORMATION:
/ APPLICANT: Manners, John M.
/ APPLICANT: Marcus, John Paul
/ APPLICANT: Goulter, Kenneth C.
/ APPLICANT: Green, Jodie L.
```



```
;; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
;; FILE REFERENCE: CULLN23.001APC
;; CURRENT APPLICATION NUMBER: US/09/331,631A
;; PRIOR FILING DATE: 1999-06-21
;; PRIOR APPLICATION NUMBER: PCT/AU97/00874
;; PRIOR FILING DATE: 1997-12-22
;; PRIOR APPLICATION NUMBER: AU PO 4275
;; PRIOR FILING DATE: 1996-12-20
;; NUMBER OF SEQ ID NOS: 40
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 36
;; LENGTH: 29
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Consensus sequence for antimicrobial peptides
;; OTHER INFORMATION: wherein X is any amino acid and the first and last
;; OTHER INFORMATION: X are phenylalanine or Tyrosine.
US-09-331-631a-36
```

```
Query Match          100.0%; Score 54; DB 9; Length 29;
Best Local Similarity 100.0%; Pred. No. 6e+02;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 CXXXCXXXXXXXXXXCXXC 22
         |||
Db      4 CXXXCXXXXXXXXXXCXXC 25
```

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RESULT 14
US-10-147-095-33
; Sequence 33, Application US/10147095
; Publication No. US20030171274A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie L.
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; FILE REFERENCE: CULLN23.001APC
; CURRENT APPLICATION NUMBER: US/10/147,095
; CURRENT FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: US/09/331,631A
; PRIOR FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: PCT/AU97/00874
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: AU PO 4275
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 33
; LENGTH: 29
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Consensus sequence for antimicrobial peptides
; OTHER INFORMATION: wherein X is any amino acid.
US-10-147-095-33
```

```
Query Match          100.0%; Score 54; DB 14; Length 29;
Best Local Similarity 100.0%; Pred. No. 6e+02;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 CXXXCXXXXXXXXXXCXXC 22
         |||
Db      4 CXXXCXXXXXXXXXXCXXC 25
```

```
RESULT 15
US-10-147-095-36
; Sequence 36, Application US/10147095
; Publication No. US20030171274A1
; GENERAL INFORMATION:
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```
;; APPLICANT: Manners, John M.
;; APPLICANT: Marcus, John Paul
;; APPLICANT: Goulter, Kenneth C.
;; APPLICANT: Green, Jodie L.
;; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
;; FILE REFERENCE: CULLN23.001APC
;; CURRENT APPLICATION NUMBER: US/10/147,095
;; CURRENT FILING DATE: 2002-05-15
;; PRIOR APPLICATION NUMBER: US/09/331,631A
;; PRIOR FILING DATE: 1999-06-21
;; PRIOR APPLICATION NUMBER: PCT/AU97/00874
;; PRIOR FILING DATE: 1997-12-22
;; PRIOR APPLICATION NUMBER: AU PO 4275
;; PRIOR FILING DATE: 1996-12-20
;; NUMBER OF SEQ ID NOS: 40
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 36
;; LENGTH: 29
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Consensus sequence for antimicrobial peptides
;; OTHER INFORMATION: wherein X is any amino acid and the first and last
;; OTHER INFORMATION: X are phenylalanine or Tyrosine.
US-10-147-095-36
```

```
Query Match          100.0%; Score 54; DB 14; Length 29;
Best Local Similarity 100.0%; Pred. No. 6e+02;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 CXXXCXXXXXXXXXXCXXC 22
         |||
Db      4 CXXXCXXXXXXXXXXCXXC 25
```

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Search completed: February 15, 2005, 18:33:56
Job time : 3.65762 secs
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**This Page Blank (uspto)**

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

## OM protein - protein search, using sw model

Run on: February 15, 2005, 17:27:45 ; Search time 1.28466 Seconds  
(without alignments)  
1220.271 Million cell updates/sec

Title: US-09-331-631A-38

Sequence: 1 CXXXXXXXXXXXXXXC 21

Scoring table: BLOSUM62DX  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/ptodata/1/1aa/5A.COMB.pep:\*  
2: /cgn2\_6/ptodata/1/1aa/5B.COMB.pep:\*  
3: /cgn2\_6/ptodata/1/1aa/6A.COMB.pep:\*  
4: /cgn2\_6/ptodata/1/1aa/6B.COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/PCtus.COMB.pep:\*  
6: /cgn2\_6/ptodata/1/1aa/backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	53	100.0	24	1	US-08-036-555B-41
2	53	100.0	24	1	US-08-469-569-41
3	53	100.0	24	1	US-08-249-322A-41
4	53	100.0	24	1	US-08-469-526A-41
5	53	100.0	24	2	US-08-734-591A-41
6	53	100.0	24	2	US-08-469-660-41
7	53	100.0	24	3	US-08-735-021-41
8	53	100.0	24	3	US-08-734-664A-41
9	53	100.0	24	4	US-09-643-657-35
10	53	100.0	24	5	PCT-US94-05083C-41
11	53	100.0	24	5	PCT-US95-06846A-41
12	53	100.0	30	4	US-09-270-767-43284
13	53	100.0	38	2	US-08-902-516-47
14	53	100.0	38	4	US-09-847-185-47
15	53	100.0	40	4	US-07-757-022B-8
16	53	100.0	41	4	US-07-757-022B-6
17	53	100.0	45	1	US-08-451-947-97
18	53	100.0	45	1	US-08-424-826A-97
19	53	100.0	45	3	US-08-928-694-97
20	53	100.0	45	3	US-08-900-230-12
21	53	100.0	45	3	US-08-900-230-14
22	53	100.0	45	4	US-08-450-842-97
23	53	100.0	45	4	US-08-451-390-97
24	53	100.0	45	5	PCT-US91-06950-97
25	53	100.0	47	1	US-08-451-947-93
26	53	100.0	47	1	US-08-451-947-94
27	53	100.0	47	1	US-08-451-947-95

28	53	100.0	47	1	US-08-451-947-96	Sequence 96, Appl
29	53	100.0	47	2	US-08-424-826A-93	Sequence 93, Appl
30	53	100.0	47	2	US-08-424-826A-94	Sequence 94, Appl
31	53	100.0	47	2	US-08-424-826A-95	Sequence 95, Appl
32	53	100.0	47	2	US-08-424-826A-96	Sequence 96, Appl
33	53	100.0	47	3	US-08-482-085B-91	Sequence 91, Appl
34	53	100.0	47	3	US-08-928-694-93	Sequence 93, Appl
35	53	100.0	47	3	US-08-928-694-94	Sequence 94, Appl
36	53	100.0	47	3	US-08-928-694-95	Sequence 95, Appl
37	53	100.0	47	3	US-08-928-694-96	Sequence 96, Appl
38	53	100.0	47	4	US-08-450-842-91	Sequence 91, Appl
39	53	100.0	47	4	US-08-450-842-94	Sequence 94, Appl
40	53	100.0	47	4	US-08-450-842-95	Sequence 95, Appl
41	53	100.0	47	4	US-08-450-842-96	Sequence 96, Appl
42	53	100.0	47	4	US-08-451-390-93	Sequence 93, Appl
43	53	100.0	47	4	US-08-451-390-94	Sequence 94, Appl
44	53	100.0	47	4	US-08-451-390-95	Sequence 95, Appl
45	53	100.0	47	4	US-08-451-390-96	Sequence 96, Appl

## ALIGNMENTS

RESULT 1  
US-08-036-555B-41  
Sequence 41, Application US/08036555B  
Patent No. 5530109  
GENERAL INFORMATION:  
APPLICANT: Goodearl, Andrew; Stroobant, Paul;  
APPLICANT: Minibetti, Luisa; Waterfield, Michael; Marchionni, Mark;  
APPLICANT: Chen, Miao Su; Hiles, Ian  
TITLE OF INVENTION: Gli1 Mitogenic Factors, Their  
PREPARATION AND USE  
NUMBER OF SEQUENCES: 184  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Felfe & Lynch  
STREET: 805 Third Avenue  
CITY: New York City  
STATE: New York  
COUNTRY: USA  
ZIP: 10022  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage  
COMPUTER: IBM  
OPERATING SYSTEM: PC-DOS  
SOFTWARE: Wordperfect  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/036,555B  
FILING DATE: 24-MAR-1993  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/965,173  
FILING DATE: 23-OCT-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/940,389  
FILING DATE: 03-SEP-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/907,138  
FILING DATE: 30-JUN-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/863,703  
FILING DATE: 03-APRIL-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: U.K. 91 07566.3  
FILING DATE: 10-APRIL-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Tsai, Christine H.  
REGISTRATION NUMBER: 34,266  
REFERENCE/DOCKET NUMBER: LUD 5250.4  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 688-9200  
TELEFAX: (212) 838-3884  
INFORMATION FOR SEQ ID NO: 41:





QY 1 CXXXXXXXXXXXXXXXXC 21  
DB 4 CGCTCCTTCTTCTTGCCCTTC 24

## RESULT 6

US-08-469-660-41  
; Sequence 41, Application US/08469660  
; Patent No. 5876973  
; GENERAL INFORMATION:  
; APPLICANT: Gwynne, David I.; Marchionni, Mark;  
; APPLICANT: McBurney, Robert N.  
; TITLE OF INVENTION: INHIBITORS OF CELL PROLIFERATION,  
; TITLE OF INVENTION: THEIR PREPARATION AND USE  
; NUMBER OF SEQUENCES: 184  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: Massachusetts  
; ZIP: 0211-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage  
; COMPUTER: IBM  
; OPERATING SYSTEM: PC-DOS  
; SOFTWARE: Wordperfect  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/469,660  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/011,396  
; FILING DATE: 29-JAN-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/984,085  
; FILING DATE: 01-DEC-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/951,747  
; FILING DATE: 25-SEP-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/927,337  
; FILING DATE: 10-AUG-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Clark, Paul T.  
; REGISTRATION NUMBER: 30,162  
; REFERENCE/DOCKET NUMBER: 04585/017004  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 542-5070  
; TELEFAX: 200154  
; INFORMATION FOR SEQ ID NO: 41:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 24  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
US-08-469-660-41

Query Match 100.0%; Score 53; DB 2; Length 24;  
Best Local Similarity 19.0%; Pred. No. 1.3e+02;  
Matches 4; Conservative 17; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXXXXXXXXXXXXXXC 21  
DB 4 CGCTCCTTCTTCTTGCCCTTC 24

## RESULT 7

US-08-735-021-41  
; Sequence 41, Application US/08735021B  
; Patent No. 6194377  
; GENERAL INFORMATION:  
; APPLICANT: GOODEARL, ANDREW

; APPLICANT: STROOBANT, PAUL  
; APPLICANT: MINGHETTI, LUISA  
; APPLICANT: WATERFIELD, MICHAEL  
; APPLICANT: MARCHIONNI, MARK  
; APPLICANT: CHEN, MARIO S.  
; APPLICANT: HILES, IAN  
; TITLE OF INVENTION: GLIAL MITOGENIC FACTORS, THEIR  
; TITLE OF INVENTION: PREPARATION AND USE  
; FILE REFERENCE: 04585/00200L  
; CURRENT APPLICATION NUMBER: US/08/735,021B  
; EARLIER FILING DATE: 1996-10-22  
; EARLIER APPLICATION NUMBER: 08/472,065  
; EARLIER FILING DATE: 1995-06-06  
; EARLIER APPLICATION NUMBER: 08/036,555  
; EARLIER FILING DATE: 1993-03-24  
; EARLIER APPLICATION NUMBER: 07/965,173  
; EARLIER FILING DATE: 1992-10-23  
; EARLIER APPLICATION NUMBER: 07/940,389  
; EARLIER FILING DATE: 1992-09-03  
; EARLIER APPLICATION NUMBER: 07/907,138  
; EARLIER FILING DATE: 1992-06-30  
; EARLIER APPLICATION NUMBER: 07/863,703  
; EARLIER FILING DATE: 1992-04-03  
; NUMBER OF SEQ ID NOS: 192  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 41  
; TYPE: PRT  
; LENGTH: 24  
; ORGANISM: Bos taurus  
US-08-735-021-41

Query Match 100.0%; Score 53; DB 3; Length 24;  
Best Local Similarity 19.0%; Pred. No. 1.3e+02;  
Matches 4; Conservative 17; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXXXXXXXXXXXXXXC 21  
DB 4 CGCTCCTTCTTCTTGCCCTTC 24

## RESULT 8

US-08-734-664A-41  
; Sequence 41, Application US/08734664A  
; Patent No. 6204241  
; GENERAL INFORMATION:  
; APPLICANT: Goodearl, Andrew  
; APPLICANT: Stroobant, Paul  
; APPLICANT: Minghetti, Luisa  
; APPLICANT: Waterfield, Michael  
; APPLICANT: Marchionni, Mark  
; APPLICANT: Chen, Mario  
; APPLICANT: Hiles, Ian  
; TITLE OF INVENTION: GLIAL MITOGENIC FACTORS, THEIR  
; TITLE OF INVENTION: PREPARATION AND USE  
; NUMBER OF SEQUENCES: 187  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Clark & Elbing LLP  
; STREET: 176 Federal Street  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: U.S.A.  
; ZIP: 02110  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; COMPUTER: IBM Compatible Pentium  
; OPERATING SYSTEM: Windows95  
; SOFTWARE: FastSeq Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/734,664A  
; FILING DATE: 22-OCT-1996  
; CLASSIFICATION: 536  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/249,322



OY 1 CXXXCXXXXXXXXXXCXXC 21  
|::|::|::|::|::|::|::|::|  
Db 4 CGCTCCTTCTTCTGCGCTTC 24

RESULT 11  
PCT-US95-06846A-41  
; Sequence 41, Application PC/TUS9506846A  
; GENERAL INFORMATION:  
; APPLICANT: Goodheart, Andrew David; Stroobant, Paul;  
; APPLICANT: Minghetti, Luisa; Waterfield, Michael; Marchioni, Mark;  
; APPLICANT: Chen, Maio Su; Hiles, Ian  
; TITLE OF INVENTION: Glial Mitogenic Factors, Their  
; NUMBER OF SEQUENCES: 178  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Felte & Lynch  
; STREET: 805 Third Avenue  
; CITY: New York City  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 10022  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage  
; COMPUTER: IBM  
; OPERATING SYSTEM: PC-DOS  
; SOFTWARE: Wordperfect  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/06846A  
; FILING DATE: 25-MAY-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/249,322  
; FILING DATE: 26-MAY-1994  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/036,555  
; FILING DATE: 24-MAR-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/965,173  
; FILING DATE: 23-OCT-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/940,389  
; FILING DATE: 03-SEP-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/907,138  
; FILING DATE: 30-JUN-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/863,703  
; FILING DATE: 03-APRIL-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: U.K. 91 07566.3  
; FILING DATE: 10-APRIL-1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Hanson, Norman D.  
; REGISTRATION NUMBER: 30,946  
; REFERENCE/DOCKET NUMBER: LUD 5250.5  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 688-9200  
; TELEFAX: (212) 838-3884  
; INFORMATION FOR SEQ ID NO: 41:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 24  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
PCT-US95-06846A-41

Query Match 100.0%; Score 53; DB 5; Length 24;  
Best Local Similarity 19.0%; Pred. No. 1.3e+02;  
Matches 4; Conservative 17; Mismatches 0; Indels 0; Gaps 0;  
1 CXXXCXXXXXXXXXXCXXC 21  
|::|::|::|::|::|::|::|::|

Db 4 CGCTCCTTCTTCTGCGCTTC 24

RESULT 12  
US-09-270-767-43284  
; Sequence 43284, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 43284  
; LENGTH: 30  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
; FEATURE:  
; OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-43284

Query Match 100.0%; Score 53; DB 4; Length 30;  
Best Local Similarity 23.8%; Pred. No. 1.6e+02;  
Matches 5; Conservative 16; Mismatches 0; Indels 0; Gaps 0;

OY 1 CXXXCXXXXXXXXXXCXXC 21  
|::|::|::|::|::|::|::|::|  
Db 1 CNSSCKHSGMNCVXGKCGTTC 21

RESULT 13  
US-08-902-516-47  
; Sequence 47, Application US/08902516  
; Patent No. 5891432  
; GENERAL INFORMATION:  
; APPLICANT: Soo Hoo, William  
; TITLE OF INVENTION: MEMBRANE-BOUND CYTOKINE COMPOSITIONS  
; TITLE OF INVENTION: COMPRISING GM-CSF AND METHODS OF MODULATING AN IMMUNE  
; NUMBER OF SEQUENCES: 50  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: CAMPBELL & FLORES, LLP  
; STREET: 4370 La Jolla Village Drive, Suite 700  
; CITY: San Diego  
; STATE: California  
; COUNTRY: United States  
; ZIP: 92121  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/902,516  
; FILING DATE: 29-JUL-1997  
; CLASSIFICATION: 424  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Campbell, Cathryn A.  
; REGISTRATION NUMBER: 31,815  
; REFERENCE/DOCKET NUMBER: P-IM 2442  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (619) 535-9001  
; TELEFAX: (619) 535-8949  
; INFORMATION FOR SEQ ID NO: 47:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 38 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-902-516-47





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## RESULT 2

US-10-147-095-38  
Sequence 38, Application US/10147095  
Publication No. US20030171274A1  
GENERAL INFORMATION:  
APPLICANT: Manners, John M.  
APPLICANT: Marcus, John Paul  
APPLICANT: Goulter, Kenneth C.  
APPLICANT: Green, Jodie L.  
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
FILE REFERENCE: CULN23.001APC  
CURRENT APPLICATION NUMBER: US/10/147,095  
CURRENT FILING DATE: 2002-05-15  
PRIOR APPLICATION NUMBER: US/09/331,631A  
PRIOR FILING DATE: 1999-06-21  
PRIOR APPLICATION NUMBER: PCT/AU97/00874  
PRIOR FILING DATE: 1997-12-22  
PRIOR APPLICATION NUMBER: AU PO 4275  
PRIOR FILING DATE: 1996-12-20  
NUMBER OF SEQ ID NOS: 40  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 38  
LENGTH: 21  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURES:  
OTHER INFORMATION: Consensus sequence for antimicrobial peptides  
US-10-147-095-38  
OTHER INFORMATION: wherein X is any amino acid.

Query Match 100.0%; Score 53; DB 14; Length 21;  
Best Local Similarity 100.0%; Pred. No. 4.9e+02;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXXXC 21  
DB 1 CXXXCXXXXXXXXXXXXC 21

## RESULT 3

US-08-736-019-41  
Sequence 41, Application US/08736019  
Publication No. US20030207799A1  
GENERAL INFORMATION:  
APPLICANT: Goodearl, Andrew  
APPLICANT: Stroobant, Paul  
APPLICANT: Minghetti, Luisa  
APPLICANT: Waterfield, Michael  
APPLICANT: Marchionni, Mark  
APPLICANT: Chen, Mario  
APPLICANT: Hillee, Ian  
TITLE OF INVENTION: GLIAL MITOGENIC FACTORS, THEIR  
TITLE OF INVENTION: PREPARATION AND USE  
NUMBER OF SEQUENCES: 189  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Clark & Ribling LLP  
STREET: 176 Federal Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: U.S.A.  
ZIP: 02110  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 MB  
COMPUTER: IBM Compatible Pentium  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/736,019  
FILING DATE: 22-OCT-1996  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/471,833

## FILING DATE: 06-JUN-1995

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/036,555  
FILING DATE: 24-MAR-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/965,173  
FILING DATE: 23-OCT-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/907,138  
FILING DATE: 30-JUN-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/940,389  
FILING DATE: 03-SEP-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/863,703  
FILING DATE: 03-APR-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: UK 91 07566.3  
FILING DATE: 10-APR-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Bieker-Brady, Kristina  
REGISTRATION NUMBER: 39,109  
REFERENCE/DOCKET NUMBER: 04585/00200Q  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 428-0200  
TELEFAX: (617) 428-7045  
TELEX:  
INFORMATION FOR SEQ ID NO: 41:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 24  
TYPE: amino acid  
STRANDEDNESS: linear  
TOPOLOGY: linear  
US-08-736-019-41

Query Match 100.0%; Score 53; DB 8; Length 24;  
Best Local Similarity 19.0%; Pred. No. 5.5e+02;  
Matches 4; Conservative 17; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXXXC 21  
DB 4 CGCTCCTCTCTTGGCCCTTC 24

## RESULT 4

US-09-331-631A-32  
Sequence 32, Application US/09331631A  
Patent No. US20020168392A1  
GENERAL INFORMATION:  
APPLICANT: Manners, John M.  
APPLICANT: Marcus, John Paul  
APPLICANT: Goulter, Kenneth C.  
APPLICANT: Green, Jodie L.  
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
FILE REFERENCE: CULN23.001APC  
CURRENT APPLICATION NUMBER: US/09/331,631A  
CURRENT FILING DATE: 1999-06-21  
PRIOR APPLICATION NUMBER: PCT/AU97/00874  
PRIOR FILING DATE: 1997-12-22  
PRIOR APPLICATION NUMBER: AU PO 4275  
PRIOR FILING DATE: 1996-12-20  
NUMBER OF SEQ ID NOS: 40  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 32  
LENGTH: 28  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURES:  
OTHER INFORMATION: Consensus sequence for antimicrobial peptides  
US-09-331-631A-32  
OTHER INFORMATION: wherein X is any amino acid.

Query Match 100.0%; Score 53; DB 9; Length 28;

Best Local Similarity 100.0%; Pred. No. 6.2e+02;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CXXXCXXXXXXXXXXCXXC 21  
|||  
Db 4 CXXXCXXXXXXXXXXCXXC 24

## RESULT 5

US-09-331-631A-35  
; Sequence 35, Application US/09331631A  
; Patent No. US20020168392A1  
; GENERAL INFORMATION:  
; APPLICANT: Manners, John M.  
; APPLICANT: Marcus, John Paul  
; APPLICANT: Goulter, Kenneth C.  
; APPLICANT: Green, Jodie L.  
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
; FILE REFERENCE: CULN23.001APC  
; CURRENT APPLICATION NUMBER: US/09/331,631A  
; CURRENT FILING DATE: 1999-06-21  
; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
; PRIOR FILING DATE: 1997-12-22  
; PRIOR APPLICATION NUMBER: AU PO 4275  
; PRIOR FILING DATE: 1996-12-20  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 35  
; LENGTH: 28  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Consensus sequence for antimicrobial peptides  
; OTHER INFORMATION: wherein X is any amino acid and the first and last  
US-09-331-631A-35

Query Match 100.0%; Score 53; DB 9; Length 28;  
Best Local Similarity 100.0%; Pred. No. 6.2e+02;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CXXXCXXXXXXXXXXCXXC 21  
|||  
Db 4 CXXXCXXXXXXXXXXCXXC 24

## RESULT 6

US-10-147-095-32  
; Sequence 32, Application US/10147095  
; Publication No. US20030171274A1  
; GENERAL INFORMATION:  
; APPLICANT: Manners, John M.  
; APPLICANT: Marcus, John Paul  
; APPLICANT: Goulter, Kenneth C.  
; APPLICANT: Green, Jodie L.  
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
; FILE REFERENCE: CULN23.001APC  
; CURRENT APPLICATION NUMBER: US/10/147,095  
; CURRENT FILING DATE: 2002-05-15  
; PRIOR APPLICATION NUMBER: US/09/331,631A  
; PRIOR FILING DATE: 1999-06-21  
; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
; PRIOR FILING DATE: 1997-12-22  
; PRIOR APPLICATION NUMBER: AU PO 4275  
; PRIOR FILING DATE: 1996-12-20  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 32  
; LENGTH: 28  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Consensus sequence for antimicrobial peptides

; OTHER INFORMATION: wherein X is any amino acid.  
US-10-147-095-32

Query Match 100.0%; Score 53; DB 14; Length 28;  
Best Local Similarity 100.0%; Pred. No. 6.2e+02;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CXXXCXXXXXXXXXXCXXC 21  
|||  
Db 4 CXXXCXXXXXXXXXXCXXC 24

## RESULT 7

US-10-147-095-35  
; Sequence 35, Application US/10147095  
; Publication No. US20030171274A1  
; GENERAL INFORMATION:  
; APPLICANT: Manners, John M.  
; APPLICANT: Marcus, John Paul  
; APPLICANT: Goulter, Kenneth C.  
; APPLICANT: Green, Jodie L.  
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
; FILE REFERENCE: CULN23.001APC  
; CURRENT APPLICATION NUMBER: US/10/147,095  
; CURRENT FILING DATE: 2002-05-15  
; PRIOR APPLICATION NUMBER: US/09/331,631A  
; PRIOR FILING DATE: 1999-06-21  
; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
; PRIOR FILING DATE: 1997-12-22  
; PRIOR APPLICATION NUMBER: AU PO 4275  
; PRIOR FILING DATE: 1996-12-20  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 35  
; LENGTH: 28  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Consensus sequence for antimicrobial peptides  
; OTHER INFORMATION: wherein X is any amino acid and the first and last  
; OTHER INFORMATION: X are phenylalanine or Tyrosine.  
US-10-147-095-35

Query Match 100.0%; Score 53; DB 14; Length 28;  
Best Local Similarity 100.0%; Pred. No. 6.2e+02;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CXXXCXXXXXXXXXXCXXC 21  
|||  
Db 4 CXXXCXXXXXXXXXXCXXC 24

## RESULT 8

US-10-372-076-214  
; Sequence 214, Application US/10372076  
; Publication No. US20030198645A1  
; GENERAL INFORMATION:  
; APPLICANT: Page, Mark  
; APPLICANT: Fiedle, Martin  
; TITLE OF INVENTION: STABILIZED HBC CHIMER PARTICLES AS THERAPEUTIC VACCINE FOR  
; TITLE OF INVENTION: CHRONIC HEPATITIS  
; FILE REFERENCE: 4564/87179  
; CURRENT APPLICATION NUMBER: US/10/372,076  
; CURRENT FILING DATE: 2003-02-21  
; PRIOR APPLICATION NUMBER: 10/080,299  
; PRIOR FILING DATE: 2002-02-21  
; PRIOR APPLICATION NUMBER: 10/082,014  
; PRIOR FILING DATE: 2002-02-22  
; NUMBER OF SEQ ID NOS: 308  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 214  
; LENGTH: 31  
; TYPE: PRT

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/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Amplification primer containing a restriction endonuclease site
US-10-372-076-214

Query Match          100.0%; Score 53; DB 14; Length 31;
Best Local Similarity 19.0%; Pred. No. 6.8e+02;
Matches 4; Conservative 17; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXCXXC 21
   |::|::|::|::|::|::|::|
Db 9 CCATCTTCCAAATTACACCC 29

RESULT 9
US-10-677-074-214
/ Sequence 214, Application US/10677074
/ Publication No. US2004015683A1
/ GENERAL INFORMATION:
/ APPLICANT: Page, Mark
/ APPLICANT: Friede, Martin
/ APPLICANT: Schmidt, Annette Elisabeth
/ APPLICANT: Stoeb, Detlef
/ TITLE OF INVENTION: STABILIZED HBC CHIMER PARTICLES AS THERAPEUTIC VACCINE FOR
/ FILE REFERENCE: 4564/87179
/ CURRENT APPLICATION NUMBER: US/10/677,074
/ PRIOR FILING DATE: 2003-10-01
/ PRIOR APPLICATION NUMBER: 10/372,076
/ PRIOR FILING DATE: 2002-02-21
/ PRIOR APPLICATION NUMBER: 10/080,299
/ PRIOR FILING DATE: 2002-02-21
/ PRIOR APPLICATION NUMBER: 10/082,014
/ PRIOR FILING DATE: 2002-02-22
/ NUMBER OF SEQ ID NOS: 308
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 214
/ LENGTH: 31
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Amplification primer containing a restriction endonuclease site
US-10-677-074-214

Query Match          100.0%; Score 53; DB 16; Length 31;
Best Local Similarity 19.0%; Pred. No. 6.8e+02;
Matches 4; Conservative 17; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXCXXC 21
   |::|::|::|::|::|::|::|
Db 9 CCATCTTCCAAATTACACCC 29

RESULT 10
US-10-203-675-5
/ Sequence 5, Application US/10203675
/ Publication No. US20030211097A1
/ GENERAL INFORMATION:
/ APPLICANT: Pastan, Ira
/ APPLICANT: Beers, Richard
/ APPLICANT: Partha, Chowdhury S.
/ APPLICANT: Dorell, Bigner
/ APPLICANT: The Government of the United States as represented by the Secretary of th
/ APPLICANT: Duke University
/ TITLE OF INVENTION: Anti-BGFRVII SCFVs with Improved Cytotoxicity and
/ TITLE OF INVENTION: Yield, Immunotoxins Based Thereon, And Methods of Use
/ FILE REFERENCE: 015280-419100US
/ CURRENT APPLICATION NUMBER: US/10/203,675
/ PRIOR FILING DATE: 2003-01-07
/ PRIOR APPLICATION NUMBER: WO PCT/US01/05923
/ PRIOR FILING DATE: 2001-02-23
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/ PRIOR APPLICATION NUMBER: US 60/185,039
/ PRIOR FILING DATE: 2000-02-25
/ NUMBER OF SEQ ID NOS: 11
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 5
/ LENGTH: 32
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: AMEN DNA
US-10-203-675-5

Query Match          100.0%; Score 53; DB 15; Length 32;
Best Local Similarity 19.0%; Pred. No. 7e+02;
Matches 4; Conservative 17; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXCXXC 21
   |::|::|::|::|::|::|::|
Db 10 CTTTCACAGCTATGCGGC 30

RESULT 11
US-10-008-277B-2
/ Sequence 2, Application US/10008277B
/ Publication No. US20030100549A1
/ GENERAL INFORMATION:
/ APPLICANT: Vertex Pharmaceuticals Incorporated
/ APPLICANT: Salituro, Francesco
/ APPLICANT: Bemis, Guy
/ APPLICANT: Green, Jeremy
/ APPLICANT: Jaena, Fejzo
/ APPLICANT: Xie, Xiaoling
/ TITLE OF INVENTION: Inhibitors of c-Jun N-Terminal Kinases (JNK)
/ FILE REFERENCE: VPI-99-06 CON
/ CURRENT APPLICATION NUMBER: US/10/008,277B
/ PRIOR FILING DATE: 2001-12-21
/ PRIOR APPLICATION NUMBER: PCT/US00/15248
/ PRIOR FILING DATE: 2000-06-02
/ PRIOR APPLICATION NUMBER: 60/237,523
/ PRIOR FILING DATE: 1999-06-02
/ NUMBER OF SEQ ID NOS: 3
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 2
/ LENGTH: 37
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-008-277B-2

Query Match          100.0%; Score 53; DB 14; Length 37;
Best Local Similarity 19.0%; Pred. No. 7.8e+02;
Matches 4; Conservative 17; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXCXXC 21
   |::|::|::|::|::|::|::|
Db 12 CATTCTGAATTCATTCTTCC 32

RESULT 12
US-10-146-984A-2
/ Sequence 2, Application US/10146984A
/ Publication No. US20030144309A1
/ GENERAL INFORMATION:
/ APPLICANT: Vertex Pharmaceuticals Incorporated
/ APPLICANT: Moon, Young Choon
/ TITLE OF INVENTION: Inhibitors of Src and Other Protein Kinases
/ FILE REFERENCE: VPI-01-111
/ CURRENT APPLICATION NUMBER: US/10/146,984A
/ PRIOR FILING DATE: 2002-05-16
/ PRIOR APPLICATION NUMBER: US 60/291,340
/ PRIOR FILING DATE: 2001-05-16
/ NUMBER OF SEQ ID NOS: 3
/ SOFTWARE: PatentIn version 3.0
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Query Match 100.0%; Score 53; DB 15; Length 38;  
Best Local Similarity 19.0%; Pred.No. 8e+02;  
Matches 4; Conservative 17; Mismatches 0; Indels 0; Gaps 0;  
QY 1 CXXXCXXXXXXXXXXXXCXXC 21  
|::|:::|:::|:::|  
Db 11 CCRKCCTCVNPLELCCRLC 31

Search completed: February 15, 2005, 18:33:56  
Job time : 4.49137 secs



Result No.	Score	Query Match	Length	DB	ID	Description
1	3542	100.0	666	9	US-09-331-631A-1	Sequence 1, Appl1
2	3542	100.0	666	14	US-10-147-095-1	Sequence 1, Appl1
3	3412	96.3	666	9	US-09-331-631A-3	Sequence 3, Appl1
4	3412	96.3	666	14	US-10-147-095-3	Sequence 3, Appl1
5	3227	91.1	625	9	US-09-331-631A-5	Sequence 5, Appl1
6	3227	91.1	625	14	US-10-147-095-5	Sequence 5, Appl1
7	1103.5	31.2	590	9	US-09-331-631A-8	Sequence 8, Appl1
8	1103.5	31.2	590	14	US-10-147-095-8	Sequence 8, Appl1
9	1031.5	29.1	540	14	US-10-264-303-3	Sequence 3, Appl1
10	1030.5	29.1	536	14	US-10-264-303-4	Sequence 4, Appl1
11	1025	28.9	525	9	US-09-331-631A-7	Sequence 7, Appl1
12	1025	28.9	525	14	US-10-147-095-7	Sequence 7, Appl1
13	904	25.5	582	15	US-10-425-14-60246	Sequence 60246, A

1	4	904	25.5	584	15	US-10-425-114-39532	Sequence 39532, A
15	898	25.4	582	14	US-09-331-631A-22	Sequence 22, Appl	
16	898	25.4	582	14	US-10-147-095-22	Sequence 22, Appl	
17	864.5	24.4	637	9	US-09-331-631A-24	Sequence 24, Appl	
18	864.5	24.4	637	14	US-10-147-095-24	Sequence 24, Appl	
19	851.5	24.1	605	15	US-10-100-303A-110	Sequence 110, App	
20	850	24.0	623	15	US-10-424-559-153206	Sequence 15306,	
21	849.5	24.0	626	10	US-09-847-208-28	Sequence 28, Appl	
22	849.5	24.0	626	14	US-10-328-806-2	Sequence 2, Appl	
23	849.5	24.0	626	15	US-10-100-303A-7	Sequence 7, Appl	
24	849.5	24.0	626	15	US-10-345-871-13	Sequence 10, Appl	
25	849.5	24.0	626	15	US-10-253-286-10	Sequence 10, Appl	
26	849	24.0	614	9	US-09-331-631A-21	Sequence 21, Appl	
27	849	24.0	614	10	US-09-847-208-27	Sequence 27, Appl	
28	849	24.0	614	14	US-10-147-095-21	Sequence 21, Appl	
29	849	24.0	614	15	US-10-100-303A-8	Sequence 8, Appl	
30	842.5	23.8	605	15	US-10-424-559-153195	Sequence 153195,	
31	840.5	23.7	605	9	US-09-331-631A-25	Sequence 25, Appl	
32	840.5	23.7	605	14	US-10-147-095-25	Sequence 25, Appl	
33	823	23.2	634	9	US-09-731-221-18	Sequence 78, Appl	
34	810.5	22.9	584	15	US-10-424-559-260105	Sequence 260105,	
35	810	22.9	518	15	US-10-424-559-153615	Sequence 153615,	
36	808	22.8	524	14	US-10-155-805-1	Sequence 1, Appl	
37	806.5	22.7	489	14	US-10-155-805-3	Sequence 3, Appl	
38	804.5	22.8	489	15	US-10-424-559-153614	Sequence 153614,	
39	780	22.0	447	15	US-10-425-811-4-58676	Sequence 58676, A	
40	756	21.3	444	14	US-10-155-805-2	Sequence 2, Appl	
41	738	20.8	439	15	US-10-345-2278-1	Sequence 1, Appl	
42	735.5	20.8	425	15	US-10-345-2278-12	Sequence 12, Appl	
43	735.5	20.8	576	16	US-10-437-963-146150	Sequence 146150,	
44	735	20.8	417	15	US-10-345-2278-14	Sequence 14, Appl	
45	722	20.4	390	15	US-10-345-2278-1	Sequence 2, Appl	

## ALIGNMENTS

## RESULT 1

```

US-09-331-631A-1
: Sequence 1, Application US/09331631A
: Patent No. US20020168392A1
: GENERAL INFORMATION:
: APPLICANT: Manners, John M.
: APPLICANT: Marcus, John Paul
: APPLICANT: Goulter, Kenneth C.
: APPLICANT: Green, Jodie L.
: TITLE OF INVENTION: ANTIMICROBIAL PROTEIN
: FILE REFERENCE: CULN23.001APC
: CURRENT APPLICATION NUMBER: US/09/331, 631A
: CURRENT FILING DATE: 1999-05-21
: PRIOR APPLICATION NUMBER: PCT/AU97/00874
: PRIOR FILING DATE: 1997-12-22
: PRIOR APPLICATION NUMBER: AU PO 4275
: PRIOR FILING DATE: 1996-12-20
: NUMBER OF SEQ ID NOS: 40
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 1
: LENGTH: 666
: TYPE: PRT
: ORGNISM: Macadamia integrifolia
: US-09-331-631A-1

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Query Match	100.0%;	Score 3542;	DB 9;	Length 666;
Best Local Similarity	100.0%;	Pred. No. 2.1e-262;		
Matches 666;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0

QY 1 MAINTSNTCSLLFLSLFLSLPSTTTTVAIASEPDRBEYCKXQCMQLOLSTSGMRVCVSCD 60

Db 1 MAININSDSCSLFLSLFLSLSTTVAIASEPDRBEYCKXQCMQLOLSTSGMRVCVSCD 60

QY 61 KREEDIDMSKYDNEDPQTECCOCORRCROOESPROOYCORCKEICEEBEYNROR 120

Db 61 KREEDIDMSKYDNEDPQTECCOCORRCROOESPROOYCORCKEICEEBEYNROR 120

QY 121 DPQOYEOCQKCORRETEPRHMTCCQRCRRYKEKRRKQKRYEEOQREDEEKYEERM 180  
 DB 121 DPQOYEOCQKCORRETEPRHMTCCQRCRRYKEKRRKQKRYEEOQREDEEKYEERM 180  
 QY 181 KEEDNKRDPOQREYEDCRRCEQOEPRQOHCQCRCEQORHGRGDMNPPQGGSGRY 240  
 DB 181 KEEDNKRDPOQREYEDCRRCEQOEPRQOHCQCRCEQORHGRGDMNPPQGGSGRY 240  
 QY 241 EGESEOSDNPYPYEDERLSTRFTEBCHSVLENFYGRSKTLRALKNYRLVLLANPNA 300  
 DB 241 EGESEOSDNPYPYEDERLSTRFTEBCHSVLENFYGRSKTLRALKNYRLVLLANPNA 300  
 QY 301 FVLPTHLADADAILLVIGGRGALKMIHNDNRESYVLKGGDVIRIPAGTTFYLINRDNNE 360  
 DB 301 FVLPTHLADADAILLVIGGRGALKMIHNDNRESYVLKGGDVIRIPAGTTFYLINRDNNE 360  
 QY 361 HIAFLQITISTPGQYKEFPFAGGQNPPEPYLSTFSKEILKALNTQTEKLGAVFGQOREGV 420  
 DB 361 HIAFLQITISTPGQYKEFPFAGGQNPPEPYLSTFSKEILKALNTQTEKLGAVFGQOREGV 420  
 QY 421 IIRASQOIRELTDESRHMHIRRGESSRGPYNLFNRPYLSNKGAYEYKPEDYR 480  
 DB 421 IIRASQOIRELTDESRHMHIRRGESSRGPYNLFNRPYLSNKGAYEYKPEDYR 480  
 QY 481 QLOQMDISVFIVANTQSGMMGPFFNTRSTKVYVVAAGADVEMACPHLSGRHGRGGGR 540  
 DB 481 QLOQMDISVFIVANTQSGMMGPFFNTRSTKVYVVAAGADVEMACPHLSGRHGRGGGR 540  
 QY 541 HESEEDVHYQVAPARLSKRAIVVLAGHPVYFVSSGNENLLFAFGINAQNNHENTLAGR 600  
 DB 541 HESEEDVHYQVAPARLSKRAIVVLAGHPVYFVSSGNENLLFAFGINAQNNHENTLAGR 600  
 QY 601 ERNVLQOIEPQAMELAFAPRKEVESFNSQDSIFFPGRHQOQSPSTKQOQPLVSI 660  
 DB 601 ERNVLQOIEPQAMELAFAPRKEVESFNSQDSIFFPGRHQOQSPSTKQOQPLVSI 660  
 QY 661 LDFVGF 666  
 DB 661 LDFVGF 666  
 RESULT 2  
 US-10-147-095-1  
 ; Sequence 1, Application US/10147095  
 ; Publication No. US20030171274A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Mannerts, John M.  
 ; APPLICANT: Marcus, John Paul  
 ; APPLICANT: Goulter, Kenneth C.  
 ; APPLICANT: Green, Jodie L.  
 ; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
 ; FILE REFERENCE: CULIN23.001APC  
 ; CURRENT APPLICATION NUMBER: US/10/147,095  
 ; PRIOR FILING DATE: 2002-05-15  
 ; PRIOR APPLICATION NUMBER: US/09/331,631A  
 ; PRIOR FILING DATE: 1999-06-21  
 ; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
 ; PRIOR FILING DATE: 1997-12-22  
 ; PRIOR APPLICATION NUMBER: AU PO 4275  
 ; NUMBER OF SEQ ID NOS: 40  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 1  
 ; LENGTH: 666  
 ; TYPE: PRT  
 ; ORGANISM: Macadamia integrifolia  
 US-10-147-095-1

APR

Query Match 100.0%; Score 3542; DB 14; Length 666;  
 Best Local Similarity 100.0%; Pred. No. 2,1e-262;  
 Matches 666; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAINTSNLSLFLSLFLSTTVSLABSEPRDQREYECRCQCMQLETSGQNRRCVSCD 60  
 DB 1 MAINTSNLSLFLSLFLSTTVSLABSEPRDQREYECRCQCMQLETSGQNRRCVSCD 60  
 QY 61 KRPEEDIDMSKYDNOEDPQTECOCCORCRQOESGPRQOQYCORCKEICEEHEEYNNOR 120  
 DB 61 KRPEEDIDMSKYDNOEDPQTECOCCORCRQOESGPRQOQYCORCKEICEEHEEYNNOR 120  
 QY 121 DPQOYEOCQKCORRETEPRHMTCCQRCRRYKEKRRKQKRYEEOQREDEEKYEERM 180  
 DB 121 DPQOYEOCQKCORRETEPRHMTCCQRCRRYKEKRRKQKRYEEOQREDEEKYEERM 180  
 QY 181 KEEDNKRDPOQREYEDCRRCEQOEPRQOHCQCRCEQORHGRGDMNPPQGGSGRY 240  
 DB 181 KEEDNKRDPOQREYEDCRRCEQOEPRQOHCQCRCEQORHGRGDMNPPQGGSGRY 240  
 QY 241 EGESEOSDNPYPYEDERLSTRFTEBCHSVLENFYGRSKTLRALKNYRLVLLANPNA 300  
 DB 241 EGESEOSDNPYPYEDERLSTRFTEBCHSVLENFYGRSKTLRALKNYRLVLLANPNA 300  
 QY 301 FVLPTHLADADAILLVIGGRGALKMIHNDNRESYVLKGGDVIRIPAGTTFYLINRDNNE 360  
 DB 301 FVLPTHLADADAILLVIGGRGALKMIHNDNRESYVLKGGDVIRIPAGTTFYLINRDNNE 360  
 QY 361 HIAFLQITISTPGQYKEFPFAGGQNPPEPYLSTFSKEILKALNTQTEKLGAVFGQOREGV 420  
 DB 361 HIAFLQITISTPGQYKEFPFAGGQNPPEPYLSTFSKEILKALNTQTEKLGAVFGQOREGV 420  
 QY 421 IIRASQOIRELTDESRHMHIRRGESSRGPYNLFNRPYLSNKGAYEYKPEDYR 480  
 DB 421 IIRASQOIRELTDESRHMHIRRGESSRGPYNLFNRPYLSNKGAYEYKPEDYR 480  
 QY 481 QLOQMDISVFIVANTQSGMMGPFFNTRSTKVYVVAAGADVEMACPHLSGRHGRGGGR 540  
 DB 481 QLOQMDISVFIVANTQSGMMGPFFNTRSTKVYVVAAGADVEMACPHLSGRHGRGGGR 540  
 QY 541 HESEEDVHYQVAPARLSKRAIVVLAGHPVYFVSSGNENLLFAFGINAQNNHENTLAGR 600  
 DB 541 HESEEDVHYQVAPARLSKRAIVVLAGHPVYFVSSGNENLLFAFGINAQNNHENTLAGR 600  
 QY 601 ERNVLQOIEPQAMELAFAPRKEVESFNSQDSIFFPGRHQOQSPSTKQOQPLVSI 660  
 DB 601 ERNVLQOIEPQAMELAFAPRKEVESFNSQDSIFFPGRHQOQSPSTKQOQPLVSI 660  
 QY 661 LDFVGF 666  
 DB 661 LDFVGF 666  
 RESULT 3  
 US-09-331-631A-3  
 ; Sequence 3, Application US/09331631A  
 ; Patent No. US20020168392A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Mannerts, John M.  
 ; APPLICANT: Marcus, John Paul  
 ; APPLICANT: Goulter, Kenneth C.  
 ; APPLICANT: Green, Jodie L.  
 ; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
 ; FILE REFERENCE: CULIN23.001APC  
 ; CURRENT APPLICATION NUMBER: US/09/331,631A  
 ; PRIOR FILING DATE: 1999-06-21  
 ; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
 ; PRIOR FILING DATE: 1997-12-22  
 ; PRIOR APPLICATION NUMBER: AU PO 4275  
 ; NUMBER OF SEQ ID NOS: 40  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 3  
 ; LENGTH: 666  
 ; TYPE: PRT  
 ; ORGANISM: Macadamia integrifolia  
 ; FEATURE:

NAME/KEY: SIGNAL  
LOCATION: (1)...(28)  
NAME/KEY: PEPTIDE  
LOCATION: (29)...(666)  
US-09-331-631a-3

Query Match 96.3%; Score 3412; DB 9; Length 666;  
Best Local Similarity 96.1%; Pred. No. 1.9e-252;  
Matches 640; Conservative 12; Mismatches 14; Indels 0; Gaps 0;

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QY 1 MAINTSNLCSLFLFLSLFLSTTVSLAESFDRQREYECCKQCMQLETSGQMRRCVCSQCD 60
DB 1 MAINTSNLCSLFLFLSLFLSTTVSLAESFDRQREYECCKQCMQLETSGQMRRCVCSQCD 60
QY 61 KRFEEDIMSKYDNOEDPQTECCQCRQCRQESGPRQOYCQRRCKEICEEBEYNNR 120
DB 61 KRFEEDIMSKYDNOEDPQTECCQCRQCRQESGPRQOYCQRRCKEICEEBEYNNR 120
QY 121 DPQOQYECQCRQHETEPHMQTCQCRCKRYEKERKQKRYEEOQREDEEYER 180
DB 121 DPQOQYECQCRQHETEPHMQTCQCRCKRYEKERKQKRYEEOQREDEEYER 180
QY 181 KEEDNKRDPOQREYEDCRRCEQEPROQHOCQRCREQORHGRGDMNPPORGSGRY 240
DB 181 KEEDNKRDPOQREYEDCRRCEQEPROQHOCQRCREQORHGRGDMNPPORGSGRY 240
QY 241 EEBEGESQDNYPYFDERSLSTRFTEEGHISYLENFYGRSKLLRALKYRLVLEAPNVA 300
DB 241 EEBEGESQDNYPYFDERSLSTRFTEEGHISYLENFYGRSKLLRALKYRLVLEAPNVA 300
QY 301 FVLPTHLADAILVYIGRGALKMTHDNRESYNLECGDVIRIPAGTTFYLLINRDNREL 360
DB 301 FVLPTHLADAILVYIGRGALKMTHDNRESYNLECGDVIRIPAGTTFYLLINRDNREL 360
QY 361 HIAKFLQITSTPGQYKEFFPAGGQNPBYLSTFSKEILEALNTQTEKLRGVFGQOREGV 420
DB 361 HIAKFLQITSTPGQYKEFFPAGGQNPBYLSTFSKEILEALNTQTEKLRGVFGQOREGV 420
QY 421 IIRASQEOIRBELTRDSSRHHWIRRGESSRGPNLFNKRPYLNKYGQAYEVKPEDYR 480
DB 421 IIRASQEOIRBELTRDSSRHHWIRRGESSRGPNLFNKRPYLNKYGQAYEVKPEDYR 480
QY 481 OLQDMDSLVTANVTQSGSMGPFENTRSTKYVVVVASGADVEMACPHLSGRHGGGGR 540
DB 481 OLQDMDSLVTANVTQSGSMGPFENTRSTKYVVVVASGADVEMACPHLSGRHGGGGR 540
QY 541 HEEEDVHYEQVRLSKREAIIVLAGHPVVFVSSGNNLLFAFGINAKNNHNFAGR 600
DB 541 HEEEDVHYEQVRLSKREAIIVLAGHPVVFVSSGNNLLFAFGINAKNNHNFAGR 600
QY 601 ERNVLQOIEPQAMEIAFAAPRKEVESFNSQDSIFFPGPROHQOQSPRSTKQOQPLVSI 660
DB 601 ERNVLQOIEPQAMEIAFAAPRKEVESFNSQDSIFFPGPROHQOQSPRSTKQOQPLVSI 660
QY 661 LDFVGF 666
DB 661 LDFVGF 666

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RESULT 4  
US-10-147-095-3  
Sequence 3, Application US/10147095  
Publication No. US20030171274A1  
GENERAL INFORMATION:  
APPLICANT: Mannes, John M.  
APPLICANT: Marcus, John Paul  
APPLICANT: Goulter, Kenneth C.  
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
FILE REFERENCE: CULIN23.001APC  
CURRENT APPLICATION NUMBER: US/10/147,095  
CURRENT FILING DATE: 2002-05-15  
PRIOR APPLICATION NUMBER: US/09/331,631A

PRIOR FILING DATE: 1999-06-21  
PRIOR APPLICATION NUMBER: PCT/AU97/00874  
PRIOR FILING DATE: 1997-12-22  
PRIOR APPLICATION NUMBER: AU PO 4275  
PRIOR FILING DATE: 1996-12-20  
NUMBER OF SEQ ID NOS: 40  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 3  
LENGTH: 666  
TYPE: PRT  
ORGANISM: Macadamia integrifolia  
FEATURE:  
NAME/KEY: SIGNAL  
LOCATION: (1)...(28)  
FEATURE:  
NAME/KEY: PEPTIDE  
LOCATION: (29)...(666)  
US-10-147-095-3

Query Match 96.3%; Score 3412; DB 14; Length 666;  
Best Local Similarity 96.1%; Pred. No. 1.9e-252;  
Matches 640; Conservative 12; Mismatches 14; Indels 0; Gaps 0;

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QY 1 MAINTSNLCSLFLFLSLFLSTTVSLAESFDRQREYECCKQCMQLETSGQMRRCVCSQCD 60
DB 1 MAINTSNLCSLFLFLSLFLSTTVSLAESFDRQREYECCKQCMQLETSGQMRRCVCSQCD 60
QY 61 KRFEEDIMSKYDNOEDPQTECCQCRQCRQESGPRQOYCQRRCKEICEEBEYNNR 120
DB 61 KRFEEDIMSKYDNOEDPQTECCQCRQCRQESGPRQOYCQRRCKEICEEBEYNNR 120
QY 121 DPQOQYECQCRQHETEPHMQTCQCRCKRYEKERKQKRYEEOQREDEEYER 180
DB 121 DPQOQYECQCRQHETEPHMQTCQCRCKRYEKERKQKRYEEOQREDEEYER 180
QY 181 KEEDNKRDPOQREYEDCRRCEQEPROQHOCQRCREQORHGRGDMNPPORGSGRY 240
DB 181 KEEDNKRDPOQREYEDCRRCEQEPROQHOCQRCREQORHGRGDMNPPORGSGRY 240
QY 241 EEBEGESQDNYPYFDERSLSTRFTEEGHISYLENFYGRSKLLRALKYRLVLEAPNVA 300
DB 241 EEBEGESQDNYPYFDERSLSTRFTEEGHISYLENFYGRSKLLRALKYRLVLEAPNVA 300
QY 301 FVLPTHLADAILVYIGRGALKMTHDNRESYNLECGDVIRIPAGTTFYLLINRDNREL 360
DB 301 FVLPTHLADAILVYIGRGALKMTHDNRESYNLECGDVIRIPAGTTFYLLINRDNREL 360
QY 361 HIAKFLQITSTPGQYKEFFPAGGQNPBYLSTFSKEILEALNTQTEKLRGVFGQOREGV 420
DB 361 HIAKFLQITSTPGQYKEFFPAGGQNPBYLSTFSKEILEALNTQTEKLRGVFGQOREGV 420
QY 421 IIRASQEOIRBELTRDSSRHHWIRRGESSRGPNLFNKRPYLNKYGQAYEVKPEDYR 480
DB 421 IIRASQEOIRBELTRDSSRHHWIRRGESSRGPNLFNKRPYLNKYGQAYEVKPEDYR 480
QY 481 OLQDMDSLVTANVTQSGSMGPFENTRSTKYVVVVASGADVEMACPHLSGRHGGGGR 540
DB 481 OLQDMDSLVTANVTQSGSMGPFENTRSTKYVVVVASGADVEMACPHLSGRHGGGGR 540
QY 541 HEEEDVHYEQVRLSKREAIIVLAGHPVVFVSSGNNLLFAFGINAKNNHNFAGR 600
DB 541 HEEEDVHYEQVRLSKREAIIVLAGHPVVFVSSGNNLLFAFGINAKNNHNFAGR 600
QY 601 ERNVLQOIEPQAMEIAFAAPRKEVESFNSQDSIFFPGPROHQOQSPRSTKQOQPLVSI 660
DB 601 ERNVLQOIEPQAMEIAFAAPRKEVESFNSQDSIFFPGPROHQOQSPRSTKQOQPLVSI 660
QY 661 LDFVGF 666
DB 661 LDFVGF 666

```

RESULT 5

US-09-331-631A-5  
 ; Sequence 5, Application US/09331631A  
 ; Patent No. US20020168392A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Mannes, John M.  
 ; APPLICANT: Marcus, John Paul  
 ; APPLICANT: Goulter, Kenneth C.  
 ; APPLICANT: Green, Jodie L.  
 ; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
 ; FILE REFERENCE: CULIN23.001APC  
 ; CURRENT APPLICATION NUMBER: US/09/331,631A  
 ; CURRENT FILING DATE: 1999-06-21  
 ; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
 ; PRIOR FILING DATE: 1997-12-22  
 ; PRIOR APPLICATION NUMBER: AU PO 4275  
 ; PRIOR FILING DATE: 1996-12-20  
 ; NUMBER OF SEQ ID NOS: 40  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 5  
 ; LENGTH: 625  
 ; TYPE: PRT  
 ; ORGANISM: Macadamia integrifolia  
 ; FEATURE:  
 ; NAME/KEY: PEPTIDE  
 ; LOCATION: (1)...(625)  
 ; OTHER INFORMATION: Partial mature peptide  
 ; US-09-331-631A-5

Query Match 91.1%; Score 3227; DB 9; Length 625;  
 Best Local Similarity 96.6%; Pred. No. 2.6e-238;  
 Matches 604; Conservative 9; Mismatches 12; Indels 0; Gaps 0;

QY 42 QCMQLETSQGMRCVSCQDKRFEEDIDMSKYDNQEDPQTECOCCORRQOESGRRQOY 101  
 DB 1 QCMQLETSQGMRCVSCQDKRFEEDIDMSKYDNQEDPQTECOCCORRQOESGRRQOY 60  
 QY 102 CORCKEICEEEENRQDPQOQYEQCKQCORRETERPHMOTCOQRCERYEKERKQ 161  
 DB 61 CORCKEICEEEENRQDPQOQYEQCKQCORRETERPHMOTCOQRCERYEKERKQ 120  
 QY 162 QKRYEQQREDEBEKYEERKKEEDNKRDPQOREYEDCRRRCQOEPRQOHCQLCRQOOR 221  
 DB 121 QKRYEQQREDEBEKYEERKKEEDNKRDPQOREYEDCRRRCQOEPRQOHCQLCRQOOR 180  
 QY 222 QHGRGDMNPPORGSGRYEEGBEESQDNPPYFDEBSLSTRTEREGHISYLENFGYGRK 281  
 DB 181 QHGRGDMNPPORGSGRYEEGBEESQDNPPYFDEBSLSTRTEREGHISYLENFGYGRK 240  
 QY 282 LIRALKNYRLVYLEANPNFVLPHTLDADAILLVIGRGALKMIIHNDRESYNLECGDYI 341  
 DB 241 LIRALKNYRLVYLEANPNFVLPHTLDADAILLVIGRGALKMIIHNDRESYNLECGDYI 300  
 QY 342 RIPAGTTFYLINRDNNERLHIAKFLQTIISTPQYKEFPAGQONPEPYLSTFSKEILENA 401  
 DB 301 RIPAGTTFYLINRDNNERLHIAKFLQTIISTPQYKEFPAGQONPEPYLSTFSKEILENA 360  
 QY 402 LNTQTEKLRGVYQGOOREGVITIRASQOIRBELTRDSESRHMIIRGGESSRGPYULFNKR 461  
 DB 361 LNTQTEKLRGVYQGOOREGVITIRASQOIRBELTRDSESRHMIIRGGESSRGPYULFNKR 420  
 QY 462 PLYSNKYQAYEVKPEEDYROLQMDLSVFIANVTQSGMMGPFNTSTKVVVVAAGEADV 521  
 DB 421 PLYSNKYQAYEVKPEEDYROLQMDLSVFIANVTQSGMMGPFNTSTKVVVVAAGEADV 480  
 QY 522 EMACPHLSGRHGRGGGKXHEEEDVHYEQVRARLSKREAIIVVLACHPVVVFSSNGENLL 581  
 DB 481 EMACPHLSGRHGRGGGKXHEEEDVHYEQVRARLSKREAIIVVLACHPVVVFSSNGENLL 540  
 QY 582 LPAFGINAQNNHNFAGREBRNVLQOIEPQAMELAARAKVEEESFNQODOSIFPPGR 641  
 DB 541 LPAFGINAQNNHNFAGREBRNVLQOIEPQAMELAARAKVEEESFNQODOSIFPPGR 600  
 QY 642 QHQQQSPRSTKQOQPLVSIIDFVGF 666

DB 601 QHQQQSPRSTKQOQPLVSIIDFVGF 625

RESULT 6  
 US-10-147-095-5  
 ; Sequence 5, Application US/10147095  
 ; Publication No. US20030171274A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Mannes, John M.  
 ; APPLICANT: Marcus, John Paul  
 ; APPLICANT: Goulter, Kenneth C.  
 ; APPLICANT: Green, Jodie L.  
 ; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
 ; FILE REFERENCE: CULIN23.001APC  
 ; CURRENT APPLICATION NUMBER: US/10/147,095  
 ; CURRENT FILING DATE: 2002-05-15  
 ; PRIOR APPLICATION NUMBER: US/09/331,631A  
 ; PRIOR FILING DATE: 1999-06-21  
 ; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
 ; PRIOR FILING DATE: 1997-12-22  
 ; PRIOR APPLICATION NUMBER: AU PO 4275  
 ; PRIOR FILING DATE: 1996-12-20  
 ; NUMBER OF SEQ ID NOS: 40  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 5  
 ; LENGTH: 625  
 ; TYPE: PRT  
 ; ORGANISM: Macadamia integrifolia  
 ; FEATURE:  
 ; NAME/KEY: PEPTIDE  
 ; LOCATION: (1)...(625)  
 ; OTHER INFORMATION: Partial mature peptide  
 ; US-10-147-095-5

Query Match 91.1%; Score 3227; DB 14; Length 625;  
 Best Local Similarity 96.6%; Pred. No. 2.6e-238;  
 Matches 604; Conservative 9; Mismatches 12; Indels 0; Gaps 0;

QY 42 QCMQLETSQGMRCVSCQDKRFEEDIDMSKYDNQEDPQTECOCCORRQOESGRRQOY 101  
 DB 1 QCMQLETSQGMRCVSCQDKRFEEDIDMSKYDNQEDPQTECOCCORRQOESGRRQOY 60  
 QY 102 CORCKEICEEEENRQDPQOQYEQCKQCORRETERPHMOTCOQRCERYEKERKQ 161  
 DB 61 CORCKEICEEEENRQDPQOQYEQCKQCORRETERPHMOTCOQRCERYEKERKQ 120  
 QY 162 QKRYEQQREDEBEKYEERKKEEDNKRDPQOREYEDCRRRCQOEPRQOHCQLCRQOOR 221  
 DB 121 QKRYEQQREDEBEKYEERKKEEDNKRDPQOREYEDCRRRCQOEPRQOHCQLCRQOOR 180  
 QY 222 QHGRGDMNPPORGSGRYEEGBEESQDNPPYFDEBSLSTRTEREGHISYLENFGYGRK 281  
 DB 181 QHGRGDMNPPORGSGRYEEGBEESQDNPPYFDEBSLSTRTEREGHISYLENFGYGRK 240  
 QY 282 LIRALKNYRLVYLEANPNFVLPHTLDADAILLVIGRGALKMIIHNDRESYNLECGDYI 341  
 DB 241 LIRALKNYRLVYLEANPNFVLPHTLDADAILLVIGRGALKMIIHNDRESYNLECGDYI 300  
 QY 342 RIPAGTTFYLINRDNNERLHIAKFLQTIISTPQYKEFPAGQONPEPYLSTFSKEILENA 401  
 DB 301 RIPAGTTFYLINRDNNERLHIAKFLQTIISTPQYKEFPAGQONPEPYLSTFSKEILENA 360  
 QY 402 LNTQTEKLRGVYQGOOREGVITIRASQOIRBELTRDSESRHMIIRGGESSRGPYULFNKR 461  
 DB 361 LNTQTEKLRGVYQGOOREGVITIRASQOIRBELTRDSESRHMIIRGGESSRGPYULFNKR 420  
 QY 462 PLYSNKYQAYEVKPEEDYROLQMDLSVFIANVTQSGMMGPFNTSTKVVVVAAGEADV 521  
 DB 421 PLYSNKYQAYEVKPEEDYROLQMDLSVFIANVTQSGMMGPFNTSTKVVVVAAGEADV 480  
 QY 522 EMACPHLSGRHGRGGGKXHEEEDVHYEQVRARLSKREAIIVVLACHPVVVFSSNGENLL 581

Dh 481 EWACPHLSGRHGGGGRKHEESEEYHYEQVBARLSKREAIIVVLAGHPVVFVSSGNENLL 540  
Qy 582 LFAFGINNONHENTLAGERNVLOQIEPQAMELAPAPRKVEESFNOSODSIFPPGPR 641  
Dh 541 LFAFGINNONHENTLAGERNVLOQIEPQAMELAPAPRKVEESFNOSODSIFPPGPR 600  
Qy 642 OHQOOSPRSTKQOQPLVSLIDPVGF 666  
Dh 601 OHQOOSPRSTKQOQPLVSLIDPVGF 625

## RESULT 7

US-09-331-631a-8  
; Sequence 8, Application US/09331631A  
; Patent No. US2002016832A1  
; GENERAL INFORMATION:  
; APPLICANT: Manners, John M.  
; APPLICANT: Marcus, John Paul  
; APPLICANT: Goulter, Kenneth C.  
; APPLICANT: Green, Jodie L.  
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
; FILE REFERENCE: CULIN23.001APC  
; CURRENT APPLICATION NUMBER: US/09/331,631A  
; CURRENT FILING DATE: 1999-06-21  
; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
; PRIOR FILING DATE: 1997-12-22  
; PRIOR APPLICATION NUMBER: AU PO 4275  
; PRIOR FILING DATE: 1996-12-20  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 8  
; LENGTH: 590  
; TYPE: PRT  
; ORGANISM: Gossypium hirsutum (cotton)  
; US-09-331-631a-8

Query Match 31.2%; Score 1103.5; DB 9; Length 590;  
Best Local Similarity 38.7%; Pred. No. 8.9e-76;

Matches 235; Conservative 110; Mismatches 175; Indels 87; Gaps 14;

Qy 76 EDPQTECCOCCORRQCESGPRQOQYCORCKEICEESEEYVNROR--DPOQYECQCKHC 133  
Dh 35 DDPKRYEDCRRRCMDTRGQKEQOQCESCKSYGEXDQOQRHNPEDPQRYEBCQOQC 94  
Qy 134 QRRETEPRHMQTCOQRCERRYEKEXKQKRYEQREDEKYEERMKEDNKRDPQORE 193  
Dh 95 --RQOEBRQOPOCQOQCLKRFEOEQO-----SQRQ 123  
Qy 194 YEDCRRRCEQOE--PROQHQCQLRCREOQROHGRGDMNPNQRG-----GSGRYEEGEE 245  
Dh 124 FOECQOHQOQOQREKQOQCVRECKRYQE-----NPRGRGEEBAEETEBCGQ 175  
Qy 246 EOSDNPYFDEBSLSTRTEBEGHISYLENFGYRSKLRLALKNYVLVLLEANPNAFVLP 305  
Dh 176 EOSNHPFHHRHSFOSRREBEGNFRVLQRFASRHPILRGINERFLSILEANPNTFVLPH 235  
Qy 306 HLDADAILLVIGGRALKMIHNDRESYNLECGDIVIRIPAGTFYLLINDNNEHLIAKF 365  
Dh 236 HCDARKIYLVNIGRGTLLFTLHENKESYNIYVGVVVKYPAGSTVYLANODNKEKLIIVL 295  
Qy 366 LOTISTPOQYKEFPFAGQNPBPYLSFESKELLEALNTQTEKLGTVG-----QQRE 418  
Dh 296 HRPVNNPQOPEEFPPAGQRPQSYLRAFSPREILBPFTNRSQULDELFGGRQSRRRQOQ 355  
Qy 419 GVILPASQOIRRELTTRDSESRHMHIRRGESSRGPYLLFNKRPLYSNKYGAYEVKED 478  
Dh 356 GMFRASQEQIRALSQEAITSR-----EKSGE--RAFNILSGTPRYSNONGFFACRPE 409  
Qy 479 YRLODMDSVFIANVTQGSMMGPFNTRSTKYVVVVASGEADVEMACPHLSGRHGGG 538  
Dh 410 FROLADINVTYVALQINQGSIFVPHYNSKATFVILVTEGNGYAEVMSPLP-----ROSS 464  
Qy 539 KRHEEEDV-----HYEQVBARLSKREAIIVVLAGHPVVFVSSGNENLLFAF 585

Dh 485 YEEEBEEDBEEOEBEERRRSQYRKIRSRLSRGITFVVPANFPVTYFVASQONLRMGF 524  
Qy 586 G-----INNONHENTLAGERNVLOQIEPQAMELAPAPRKVEESFNOSODSIFPPGPR 640  
Dh 525 GLYNQINPDMNQRIFFVAGKINHV--RQWDSQAKELAFGVSSRLVDIFNSNQESYFVS- 582  
Qy 641 RQHQOOS 647  
Dh 583 RQRORAS 589

## RESULT 8

US-10-147-095-8  
; Sequence 8, Application US/10147095  
; Publication No. US2003017127A1  
; GENERAL INFORMATION:  
; APPLICANT: Manners, John M.  
; APPLICANT: Marcus, John Paul  
; APPLICANT: Goulter, Kenneth C.  
; APPLICANT: Green, Jodie L.  
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
; FILE REFERENCE: CULIN23.001APC  
; CURRENT APPLICATION NUMBER: US/10/147,095  
; CURRENT FILING DATE: 2002-05-15  
; PRIOR APPLICATION NUMBER: US/09/331,631A  
; PRIOR FILING DATE: 1999-06-21  
; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
; PRIOR FILING DATE: 1997-12-22  
; PRIOR APPLICATION NUMBER: AU PO 4275  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 8  
; LENGTH: 590  
; TYPE: PRT  
; ORGANISM: Gossypium hirsutum (cotton)  
; US-10-147-095-8

Query Match 31.2%; Score 1103.5; DB 14; Length 590;  
Best Local Similarity 38.7%; Pred. No. 8.9e-76;

Matches 235; Conservative 110; Mismatches 175; Indels 87; Gaps 14;

Qy 76 EDPQTECCOCCORRQCESGPRQOQYCORCKEICEESEEYVNROR--DPOQYECQCKHC 133  
Dh 35 DDPKRYEDCRRRCMDTRGQKEQOQCESCKSYGEXDQOQRHNPEDPQRYEBCQOQC 94  
Qy 134 QRRETEPRHMQTCOQRCERRYEKEXKQKRYEQREDEKYEERMKEDNKRDPQORE 193  
Dh 95 --RQOEBRQOPOCQOQCLKRFEOEQO-----SQRQ 123  
Qy 194 YEDCRRRCEQOE--PROQHQCQLRCREOQROHGRGDMNPNQRG-----GSGRYEEGEE 245  
Dh 124 FOECQOHQOQOQREKQOQCVRECKRYQE-----NPRGRGEEBAEETEBCGQ 175  
Qy 246 EOSDNPYFDEBSLSTRTEBEGHISYLENFGYRSKLRLALKNYVLVLLEANPNAFVLP 305  
Dh 176 EOSNHPFHHRHSFOSRREBEGNFRVLQRFASRHPILRGINERFLSILEANPNTFVLPH 235  
Qy 306 HLDADAILLVIGGRALKMIHNDRESYNLECGDIVIRIPAGTFYLLINDNNEHLIAKF 365  
Dh 236 HCDARKIYLVNIGRGTLLFTLHENKESYNIYVGVVVKYPAGSTVYLANODNKEKLIIVL 295  
Qy 366 LOTISTPOQYKEFPFAGQNPBPYLSFESKELLEALNTQTEKLGTVG-----QQRE 418  
Dh 296 HRPVNNPQOPEEFPPAGQRPQSYLRAFSPREILBPFTNRSQULDELFGGRQSRRRQOQ 355  
Qy 419 GVILPASQOIRRELTTRDSESRHMHIRRGESSRGPYLLFNKRPLYSNKYGAYEVKED 478  
Dh 356 GMFRASQEQIRALSQEAITSR-----EKSGE--RAFNILSGTPRYSNONGFFACRPE 409  
Qy 479 YRLODMDSVFIANVTQGSMMGPFNTRSTKYVVVVASGEADVEMACPHLSGRHGGG 538

Db 410 FROLRDINTVSAALQINQSGIFVPHNYSKATFVILVTBNGVAENVSPHLP-----ROSS 464  
Qy 539 KRHEEDV-----HYEQVRLRSKREAIIVLAGHPVVFSSGNENLLPAP 585  
Db 465 YEEBEEDEBEEQOEERSSGQYKIRSRISRGDIFVVPANFPTVFASONIARMGF 524  
Qy 586 G-----INANNHENFLAGERENVLOQIEPOAMELFAAPRKVEESFNSQOSIFPPGP 640  
Db 525 GLYNQINPDHNRIFVAKINHV-RQWDSQAKELAFGVSSRLVDEIFNSNPQESYFVS- 582  
Qy 641 RQHQQOS 647  
Db 583 RQRQRAS 589

RESULT 9  
US-10-264-303-3  
/ Sequence 3, Application US/10264303  
/ Publication No. US20030124060A1  
/ GENERAL INFORMATION:  
/ APPLICANT: Roux, Kenneth  
/ APPLICANT: Sathé, Shridhar  
/ APPLICANT: Teuber, Suzanne  
/ TITLE OF INVENTION: Purified Linear Epitopes from Cashew Nuts, Nucleic Acids Encoding  
/ FILE REFERENCE: Therefor and Associated Methods  
/ CURRENT APPLICATION NUMBER: US/10/264,303  
/ PRIOR FILING DATE: 2002-10-03  
/ PRIOR APPLICATION NUMBER: 60/326,793  
/ PRIOR FILING DATE: 2001-10-03  
/ PRIOR APPLICATION NUMBER: 60/371,774  
/ NUMBER OF SEQ ID NOS: 15  
/ SOFTWARE: PatentIn version 3.0  
/ SEQ ID NO 3  
/ LENGTH: 540  
/ TYPE: PRP  
/ ORGANISM: Anacardium occidentale  
US-10-264-303-3

Query Match 29.1%; Score 1031.5; DB 14; Length 540;  
Best Local Similarity 38.4%; Pred. No. 2.6e-70;  
Matches 211; Conservative 115; Mismatches 176; Indels 47; Gaps 10;  
Qy 104 RCKEICEEEREEYNRGRDPOQOYEOGCKHCORRETPRHMOTCCQRCERRYEKERKQOK 163  
Db 35 KCKKHCQKQYQYD-----EQKQECVKQCE-----KYYKEKGRER 71  
Qy 164 RYEQQRDEBEKYEERKEDNKRDPOQREYEDCRRRCQOEPRQOH-COLRCRQOQO 222  
Db 72 EHE-----EEBEEWGTGVDEPSTHEPAEKHLSQCMRQCEBQGGQKQLCRFCQERYK 127  
Qy 223 HGRGDMNPPORGGSGRYEEGE-EEQSDNPPYFDRSLSTRFRTEGHSVLENFYGRSK 281  
Db 128 E-RG-QNHYYKDEDEDEDEBAEEDENPVFEDEDTTKYKTEOGKVLLPFTQKSK 184  
Qy 282 LRALKNTRLVLLLEANPNAFVLPYLDADAILVYIGRGALKMTIHNDRRESVNLGCDVI 341  
Db 185 LHALEKRYLAVLVANPOAFVVPBSMDSDIFVSWGSGITTKLENKRESINVRQSDIV 244  
Qy 342 RIPAGTFYILIRDNNEHLIAKPLQITISTPGQYKEFPFAGGONPEBYLSTFSKEILEAA 401  
Db 245 SSSSTPFIYIANNDENEKLYVQFLRPVNLPGHFEVFGGGENPESFYAFSWEILEAA 304  
Qy 402 LNTQTEKLRGVFGQOREGVIIIRASQOQIRLETTRDSSRHHNIRRGESSRGPYNLPNKR 461  
Db 305 LKTSKDTLEKLFKQODQTIKAKSKQVRAMSRKGBGPKIWPFT--EBSGSGFKLFKD 361  
Qy 462 PLYSKYGOAEVVPEDYRQLOMDLSVFIANTVQSGMWGPFPNTSTKVVVAASGEADV 521  
Db 362 PSQSKTGQLEEARIDYPLPEKIDMVVSYANITKGGMSVPFYNSRATKIALIVSGBGV 421  
Qy 522 EMACPHLSGRHGRGGGKRHEEEDVYHEQVRLRSKREAIIVLAGHPVVFSSGNENLL 581

Db 422 EIACPHLSS-----SKSHPSYKRLARIRKDTVFIVPAGHPFATVASSGENLE 470  
Qy 582 LPAFGINANNHENFLAGERENVLOQIEPOAMELFAAPRKVEESFNSQOSIFPPGP 641  
Db 471 IVCFEVNAAGNIRYTLAKG-KNIIKVMKEAKELAFKQEGEBVDKVFQKQDEFFQGP 529  
Qy 642 QHQQOSPRS 650  
Db 530 WRKEKRGRA 538

RESULT 10  
US-10-264-303-4  
/ Sequence 4, Application US/10264303  
/ Publication No. US20030124060A1  
/ GENERAL INFORMATION:  
/ APPLICANT: Roux, Kenneth  
/ APPLICANT: Sathé, Shridhar  
/ APPLICANT: Teuber, Suzanne  
/ TITLE OF INVENTION: Purified Linear Epitopes from Cashew Nuts, Nucleic Acids Encoding  
/ FILE REFERENCE: Therefor and Associated Methods  
/ CURRENT APPLICATION NUMBER: US/10/264,303  
/ PRIOR FILING DATE: 2002-10-03  
/ PRIOR APPLICATION NUMBER: 60/326,793  
/ PRIOR FILING DATE: 2001-10-03  
/ PRIOR APPLICATION NUMBER: 60/371,774  
/ NUMBER OF SEQ ID NOS: 15  
/ SOFTWARE: PatentIn version 3.0  
/ SEQ ID NO 4  
/ LENGTH: 536  
/ TYPE: PRP  
/ ORGANISM: Anacardium occidentale  
US-10-264-303-4

Query Match 29.1%; Score 1030.5; DB 14; Length 536;  
Best Local Similarity 38.3%; Pred. No. 3e-70;  
Matches 210; Conservative 116; Mismatches 176; Indels 47; Gaps 10;  
Qy 104 RCKEICEEEREEYNRGRDPOQOYEOGCKHCORRETPRHMOTCCQRCERRYEKERKQOK 163  
Db 31 KCKKHCQKQYQYD-----EQKQECVKQCE-----KYYKEKGRER 67  
Qy 164 RYEQQRDEBEKYEERKEDNKRDPOQREYEDCRRRCQOEPRQOH-COLRCRQOQO 222  
Db 68 EHE-----EEBEEWGTGVDEPSTHEPAEKHLSQCMRQCEBQGGQKQLCRFCQERYK 123  
Qy 223 HGRGDMNPPORGGSGRYEEGE-EEQSDNPPYFDRSLSTRFRTEGHSVLENFYGRSK 281  
Db 124 E-RG-QNHYYKDEDEDEDEBAEEDENPVFEDEDTTKYKTEOGKVLLPFTQKSK 180  
Qy 282 LRALKNTRLVLLLEANPNAFVLPYLDADAILVYIGRGALKMTIHNDRRESVNLGCDVI 341  
Db 181 LHALEKRYLAVLVANPOAFVVPBSMDSDIFVSWGSGITTKLENKRESINVRQSDIV 240  
Qy 342 RIPAGTFYILIRDNNEHLIAKPLQITISTPGQYKEFPFAGGONPEBYLSTFSKEILEAA 401  
Db 241 SSSSTPFIYIANNDENEKLYVQFLRPVNLPGHFEVFGGGENPESFYAFSWEILEAA 300  
Qy 402 LNTQTEKLRGVFGQOREGVIIIRASQOQIRLETTRDSSRHHNIRRGESSRGPYNLPNKR 461  
Db 301 LKTSKDTLEKLFKQODQTIKAKSKQVRAMSRKGBGPKIWPFT--EBSGSGFKLFKD 357  
Qy 462 PLYSKYGOAEVVPEDYRQLOMDLSVFIANTVQSGMWGPFPNTSTKVVVAASGEADV 521  
Db 358 PSQSKTGQLEEARIDYPLPEKIDMVVSYANITKGGMSVPFYNSRATKIALIVSGBGV 417  
Qy 522 EMACPHLSGRHGRGGGKRHEEEDVYHEQVRLRSKREAIIVLAGHPVVFSSGNENLL 581  
Db 418 EIACPHLSS-----SKSHPSYKRLARIRKDTVFIVPAGHPFATVASSGENLE 466

[illegible]

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US-10-147-095-7
RESULT 12
US-10-147-095-7
; Sequence 7, Application US/10147095
; Publication No. US20030171274A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie L.
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; FILE REFERENCE: CULN23.001APC
; CURRENT APPLICATION NUMBER: US/10/147.095
; CURRENT FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: US/09/331.631A
; PRIOR FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: PCT/AU97/00674
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: AU PO 4275
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 525
; TYPE: PRT
; ORGANISM: Theobroma cacao
US-10-147-095-7

Query Match      28.9%; Score 1025; DB 14; Length 525;
Best Local Similarity 40.9%; Pred. No. 7.8e-70;
Matches 210; Conservative 93; Mismatches 157; Indels 54; Gaps 11.

QY 109 ICEEEENR---GRDPOOYECCKHCORRETEPRNHQTCQORCEREYEKKQKRY 165
DB 22 LCGSVAYAGKQYERDPQYQECQRCESATREBEQECQRCER-----EY 70
QY 166 EEOGREDEKYEEMKEEDNKRDPQREYEDCRRCEQE--PQOHQOLCRHQROH 223
DB 71 KEQORQEEEL-----QRYQCCGRCQECQOQOREQOCCQKRCWEQYEQ 116
QY 224 GRGDMMNPQGGSGRYEEGEGSDNRYRDE--RLSTRRTREGHISYLENFGREKL 282
DB 117 ER-GEHEVYHNHKKNRSEEGQQRNNRYFPKRRSFQTRFRDEGNKTLQRFANSP 175
QY 283 LRLAKNRLVYLEANPNAFVLPETHLDADALVLVIGRGALRMIHNDNESYNLECGVIR 342
DB 176 LKGINDRFLANFANPMTFILPHQCDALAIYFTVNGKTLIFVTHNNESYNVQRTVVS 235
QY 343 IPACTFYLLNRDNNRHLIAKFIQITSTISPCQYKEFFPAGQGNDEPYLSTSKETLEAL 402
DB 236 VPAGSTVYVVSQDNOEKLTIAVLALPVNSPKYELFFPAGNKKESYVGAFSYELTFV 295
QY 403 NTQREKLRGVNGOOR-----RGVLIIRASQEQIRLRTDSDSRMHIRRGESSRGP 454
DB 296 NTQREKLEELIEBQGRQGRQGGQGMFKKAPQQLRAISQATSPRH---RGGE--RLA 349
QY 455 YNLEPKPLYSNKGAYEVKPEBYROLQDMDSLFIANVTQSGMGPFFFTSTKVVV 514
DB 350 INLLSQSVVSNQGRFPEACRPEDFSQGNQNDVAVSAPKLNQGAIFVPHVNSKATFVVV 409
QY 515 ASGEADVEMACPHLSGRHGGGCGK--RHEEEDV-----HYEQVARKSLREIVLVA 566
DB 410 TDGCVGYQMACPHLSRSQSGSGSRQDRREDESESEETTFGEFQOVAKPLSPGDVAPA 469
QY 567 GHPIVFAVSSGNENLLLFAGGINAQNHNENFLAGR 600
DB 470 GHAVTFPASKQDPLNVAFGIQAQNNQRIFLAGR 503

RESULT 13
US-10-425-114-60246
; Sequence 60246, Application US/10425114

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; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 60246
; LENGTH: 582
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3600-011-B12_FLI.pcp
US-10-425-114-60246

Query Match      25.5%; Score 904; DB 15; Length 582;
Best Local Similarity 39.4%; Pred. No. 1,6e-60;
Matches 198; Conservative 92; Mismatches 182; Indels 30; Gaps 9;

QY 182 EEDNKRDPQOREYEDCRRCEOEPRQOHCQLRCREOQROHGRGDMNN-PORGSG-- 238
DB 35 EDDNNHHHGKHSQCVRRCEDRPMHQPRCLQCEGEEERKQERSRHEADRSGSGS 94
QY 239 ---RYEEGEESQNDPYFDERSLSTRFTEEGHISYLENFYGRSKLRLAKYRLVLE 295
DB 95 EDEREGEKEKQKRRPYFDRSRFRVVSSEGSLELRFDEVSRLKLGIDRYAVLE 154
QY 296 ANPNAVFLPHTLDADALLVYGGGALKMTHDNRESYNLECGDVIRIPAGTFFYLNRD 355
DB 155 ANPRSIVVSHTDHACITCYAEGEGVTTIENGERRSYTIKQGHVPAAGAVTYLANTD 214
QY 356 NNERLHIAKFLQITISTPGQYKEFPFAGGONPEPYLSTFSKEILEALNTQTEKLRGVFQ 415
DB 215 GRKLVIAKLIHTISVGEFQFPFGCGRNPEISFSLSGIORAAVYKTSDBLERLFG 274
QY 416 --QREGVITRASQOIRLITRDSE---SRHMHIRRGESGRGYNLFPKRPVSNKYQ 470
DB 275 HGDDKGIIVATBEOQTRRLRHASEGSGHPWLPPEGE-SRGPYSLLDQRPSTIANQHQ 333
QY 471 AYEYKPEDYRLODMDSLFIANTYOGSMGPFENFTRSTKVNVVASGEADVEMACPHLSG 530
DB 334 LYEDARSFHDLAHDVSVFANITAGSMAPLENTRSSFKIAYVPGNGYAEIVCPHROS 393
QY 531 RHG---GRGGKRRHEEDVH-----YQVRAUSKREALIVYLAHPVAVSSG 576
DB 394 QGSESERERDKGRSEEESESESEDEBAGGYHTIRARLSPGTAFVPAHPFVAASR 453
QY 577 NENLLFAPGINAONHNENFLAGERNVLOIEPOAMELAFAPRKEVESFNSODOSIF 636
DB 454 DSNLQIVCFEYVHADNRKAVFLAGAD-NVLOKLDVAKALSFASKAEVDEVLSRRKGF 512
QY 637 FPGPRQ---HQOQSPRSTKQO 655
DB 513 LPGPKEGSGHERREQEEERE 534

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RESULT 14  
US-10-425-114-39532  
Sequence 39532, Application US/10425114  
Publication No. US20040034888A1

GENERAL INFORMATION:  
APPLICANT: Liu, Jingdong  
APPLICANT: Zhou, Yihua  
APPLICANT: Kovalic, David K.  
APPLICANT: Screen, Steven E  
APPLICANT: Tabaska, Jack E

```

; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 39532
; LENGTH: 584
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: 700264357_FLI.pcp
US-10-425-114-39532

Query Match      25.5%; Score 904; DB 15; Length 584;
Best Local Similarity 39.4%; Pred. No. 1,6e-60;
Matches 198; Conservative 92; Mismatches 182; Indels 30; Gaps 9;

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QY 182 EEDNKRDPQOREYEDCRRCEOEPRQOHCQLRCREOQROHGRGDMNN-PORGSG-- 238
DB 37 EDDNNHHHGKHSQCVRRCEDRPMHQPRCLQCEGEEERKQERSRHEADRSGSGS 96
QY 239 ---RYEEGEESQNDPYFDERSLSTRFTEEGHISYLENFYGRSKLRLAKYRLVLE 295
DB 97 EDEREGEKEKQKRRPYFDRSRFRVVSSEGSLELRFDEVSRLKLGIDRYAVLE 156
QY 296 ANPNAVFLPHTLDADALLVYGGGALKMTHDNRESYNLECGDVIRIPAGTFFYLNRD 355
DB 157 ANPRSIVVSHTDHACITCYAEGEGVTTIENGERRSYTIKQGHVPAAGAVTYLANTD 216
QY 356 NNERLHIAKFLQITISTPGQYKEFPFAGGONPEPYLSTFSKEILEALNTQTEKLRGVFQ 415
DB 217 GRKLVIAKLIHTISVGEFQFPFGCGRNPEISFSLSGIORAAVYKTSDBLERLFG 276
QY 416 --QREGVITRASQOIRLITRDSE---SRHMHIRRGESGRGYNLFPKRPVSNKYQ 470
DB 277 HGDDKGIIVATBEOQTRRLRHASEGSGHPWLPPEGE-SRGPYSLLDQRPSTIANQHQ 335
QY 471 AYEYKPEDYRLODMDSLFIANTYOGSMGPFENFTRSTKVNVVASGEADVEMACPHLSG 530
DB 336 LYEDARSFHDLAHDVSVFANITAGSMAPLENTRSSFKIAYVPGNGYAEIVCPHROS 395
QY 531 RHG---GRGGKRRHEEDVH-----YQVRAUSKREALIVYLAHPVAVSSG 576
DB 396 QGSESERERDKGRSEEESESESEDEBAGGYHTIRARLSPGTAFVPAHPFVAASR 455
QY 577 NENLLFAPGINAONHNENFLAGERNVLOIEPOAMELAFAPRKEVESFNSODOSIF 636
DB 456 DSNLQIVCFEYVHADNRKAVFLAGAD-NVLOKLDVAKALSFASKAEVDEVLSRRKGF 514
QY 637 FPGPRQ---HQOQSPRSTKQO 655
DB 515 LPGPKEGSGHERREQEEERE 536

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RESULT 15  
US-09-331-631A-22  
Sequence 22, Application US/09331631A  
Patent No. US20020168392A1

GENERAL INFORMATION:  
APPLICANT: Manner, John M.  
APPLICANT: Marcus, John Paul  
APPLICANT: Coulter, Kenneth C.  
APPLICANT: Green, Jodie L.  
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
FILE REFERENCE: CULIN23\_001ABC  
CURRENT APPLICATION NUMBER: US/09/331,631A  
CURRENT FILING DATE: 1999-06-21  
PRIOR APPLICATION NUMBER: PCT/AU97/00874  
PRIOR FILING DATE: 1997-12-22  
PRIOR APPLICATION NUMBER: AU PO 4275  
PRIOR FILING DATE: 1996-12-20





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1	1127	31.8	566	1	US-07-955-905A-2	Sequence 2, Appl1
2	1127	31.8	566	1	US-07-955-905A-22	Sequence 22, Appl1
3	1075	30.4	587	1	US-07-955-905A-23	Sequence 23, Appl1
4	850.5	24.0	626	4	US-09-106-872A-4	Sequence 4, Appl1
5	831.5	23.7	605	1	US-07-955-905A-24	Sequence 24, Appl1
6	828.5	23.2	571	1	US-07-955-905A-25	Sequence 25, Appl1
7	808	22.8	524	4	US-09-424-283-1	Sequence 1, Appl1
8	806.5	22.8	489	4	US-09-424-283-2	Sequence 2, Appl1
9	756	21.3	444	4	US-09-424-283-3	Sequence 3, Appl1
10	752	21.2	448	4	US-09-424-283-4	Sequence 4, Appl1
11	700.5	19.8	409	4	US-09-323-195A-18	Sequence 18, Appl1
12	699.5	19.7	410	1	US-07-955-905A-26	Sequence 26, Appl1
13	692.5	19.6	523	4	US-09-323-195A-17	Sequence 17, Appl1
14	542	15.3	421	1	US-07-955-905A-27	Sequence 27, Appl1
15	464.5	13.1	335	4	US-09-106-872A-17	Sequence 17, Appl1
16	238	6.7	611	4	US-09-216-393B-81	Sequence 81, Appl1
17	216.5	6.1	1888	1	US-08-056-200-94	Sequence 94, Appl1
18	216.5	6.1	1898	2	US-08-000-644-94	Sequence 94, Appl1
19	216.5	6.1	1898	4	US-09-538-092-1180	Sequence 1280, Appl1
20	214	6.0	608	4	US-09-270-767-33937	Sequence 33937, Appl1
21	214	6.0	608	4	US-09-270-767-48154	Sequence 48154, Appl1
22	211.5	6.0	1162	2	US-08-728-323A-2	Sequence 2, Appl1
23	211.5	6.0	1162	3	US-09-398-368-2	Sequence 2, Appl1
24	211.5	6.0	1162	4	US-09-410-399-2	Sequence 2, Appl1
25	211.5	6.0	1162	4	US-09-894-273-2	Sequence 2, Appl1
26	205.5	5.8	1564	4	US-10-144-198-2	Sequence 2, Appl1
27	205.5	5.8	1564	4	US-10-144-198-4	Sequence 4, Appl1

28	195.5	5.5	1239	4	US-09-688-188B-13	Sequence 13, Appl
29	195.5	5.5	1239	4	US-09-721-417D-13	Sequence 13, Appl
30	193	5.4	1375	3	US-09-722-139-2	Sequence 2, Appl
31	193	5.4	1375	3	US-09-721-832-2	Sequence 2, Appl
32	193	5.4	1375	4	US-09-721-668-2	Sequence 2, Appl
33	191	5.4	148	4	US-09-639-207-15	Sequence 15, Appl
34	186	5.3	735	4	US-10-164-595-80	Sequence 80, Appl
35	186	5.3	784	4	US-10-164-595-79	Sequence 79, Appl
36	186	5.3	843	4	US-10-164-595-54	Sequence 54, Appl
37	181.5	5.1	584	4	US-09-949-016-8587	Sequence 8587, Appl
38	178	5.0	779	4	US-10-164-595-56	Sequence 56, Appl
39	176	5.0	585	4	US-09-949-016-6676	Sequence 6676, Appl
40	175	4.9	797	4	US-09-949-016-9627	Sequence 9627, Appl
41	170.5	4.8	505	4	US-09-648-796A-19253	Sequence 19253, Appl
42	170.5	4.8	1233	4	US-09-645-465A-15	Sequence 15, Appl
43	170.5	4.8	1233	4	US-09-645-326A-15	Sequence 35, Appl
44	170.5	4.8	1233	4	US-09-645-791-35	Sequence 35, Appl
45	170	4.8	919	4	US-09-949-016-6594	Sequence 6594, Appl

## ALIGNMENTS

RESULT 1  
US-07-955-905A-2

? Sequence 2, Application US/07955905A  
? Patent No. 5770433  
? GENERAL INFORMATION:  
? APPLICANT:  
? TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND  
? TITLE OF INVENTION: PRECURSOR  
? NUMBER OF SEQUENCES: 28  
? COMPUTER READABLE FORM:  
? MEDIUM TYPE: Floppy disk  
? COMPUTER: IBM PC compatible  
? OPERATING SYSTEM: PC-DOS/MS-DOS  
? SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)  
? CURRENT APPLICATION DATA:  
? APPLICATION NUMBER: US/07/955,905A  
? FILING DATE: 21-JAN-1993  
? CLASSIFICATION: 435  
? INFORMATION FOR SEQ ID NO: 2:  
? SEQUENCE CHARACTERISTICS:  
? LENGTH: 566 amino acids  
? TYPE: amino acid  
? TOPOLOGY: linear  
? MOLECULE TYPE: protein  
? IS-07-955-905A-2

Query Match 31.8%; Score 1127; DB 1; Length 566;

Best Local Similarity 40.4%; Pred. No. 2.2e-92;  
Matches 233; Conservative 109; Mismatches 177; Indels 58; Gaps 13

109 ICEEEEEEYNR--QRDPQQQYECCCKHCQRRETEPRHMQTCQRCERRYEKEKRKQD

22 LC SGVSA YGRKQYERDPRQYEQCQRCESEATEEREQEQCEQRCE--EX 70

166 EEOREDEKEYERMKEEDNKDPQOREYEDCRRCOE--PROHOCOLCREQORH 223

71 KEQQRQEEEL-----QRQRCGRCEQEQQGGREQQCCQRKCWEQYKEQ 116

224 GRGDMNPPQRGSGRYEEGEEEOQSDNPYFDE-RSLSTRFRTTEGHISVLNIFYGRSKL 282

117 ER-GEHENYHNHKNRSEEEGQRRNPYYFPKRSFQTRFRDEEGNFKILQRF AENSPP 175

283 LRALKNYRLVLLKANPNFVLP<sup>TH</sup>LDADA<sup>IL</sup>LVIGGRGALKMIHHDNRESYNLECGDVIR 342

176 LKGIN DYRLAMEANPNTFILPHHCDAEAIYFVTNGKGTITFVTHENKESYNVQRTVVS 235

343 IPAGTTFYLNRDNNERLHIAKFLQISTPGQYKEFFPAGGQNPPEYLSTFSKEILEAL 402

236 VPAGSTVYVVSQDNQEKLTIAVLALPVNSPGKYELFFPAGNNKPESYYGAFSVELETVF 295

QY 403 NTQTEKLRGVFGQOR-----EGVITPASQEIQLRELTRDSSESRRHHMIRGESSRGP 454  
 Db 296 NTQTEKLEETLEERQOKRQGGQGMFRRAKEQRIALISQATSPRH-----RGGE--RLA 349  
 QY 455 YNLFNRKPLYSNKYGQAYEVRPEEDYQLQDMQLSTFIANVYNGQSMNGEFTYRSTKVVV 514  
 Db 350 INLLSQSPVYSNONGRFEACPEDFSQFQNMVAVASAKLNQGLFYVDHNSKATFVVV 409  
 QY 515 ASGEADVEMAKCHPLSLSRHGRGGK--RHEEEDV-----HYDQVRARLSKRAIVVLA 566  
 Db 410 TDGVGYAQMACHPLSLSQSQSQSQSGQDRREGEDEESEEETFGEPFOVAVAPLSPGCVFVAPA 469  
 QY 567 GHFVYVSSGNENLLFAFGINANNHNEFLGRERNTLQOIEPQAMELFAAPRKEVE 626  
 Db 470 GHAVTFEPAKDOPLNAVGLNANNNORIFLAG-KQLVRQMDSEAKELSTFGVPSKLVVN 528  
 QY 627 SFNSQQSQIFFPQRRHQQSQPRSTKQQQPLVSTLDF 663  
 Db 529 IFNNPDGTFYMFSSQQRQ--RDRKRRPLASTLDF 562

RESULT 2  
US-07-955-905A-22

Sequence 22, Application US/07955905A  
Patent No. 5770422

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GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: RECOMBINANT 47 AND 31 kD COCOA PR
TITLE OF INVENTION: PRECURSOR
NUMBER OF SEQUENCES: 28
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/955,905A
FILING DATE: 21-JAN-1993
CLASSIFICATION: 435
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 566 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
ORIGINAL SOURCE:
ORGANISM: Theobroma cacao
FEATURE:
NAME/KEY: Protein
LOCATION: 1..566
OTHER INFORMATION: /note="67 kD Precursor Protein"

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Query Match	31.8%	Score 1127	DB 1	Length 566
Best Local Similarity	40.4%	Pred No	3	20.00

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OY 109 CEEBEEENR--QNDPOOOHOCXKOCRETEPRHMOCTOORCEREYEKEMOKRY 165
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 22 LGSVSAAGKQYENDPROOYEOCORRESEATEPEREOOEORCER-----EX 70
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
OY 166 EEOOREDEKYEERMEKEENDKRDPOREYEDORRRCOE--PROOOCOLRCOEORON 223
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 71 KEOROEQEEL-----QROYOCOGCHOCQOQOORBOOCORKEOYUOE 116
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
OY 224 GRGDMMNPOGGSGRYEEGBEODNDYUDE-RSLSTRPTEGHSVLENFYGRSKL 282
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 117 ER-GEHEYNHNKKNRSEEBEOQRNNYUPEPKRRSFOTRPREDEGNFKILQRAENSP 175
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
OY 283 LRALKNYRLVLEANNPNAFVLPETHDADAILVLGSGALCMHNDRRESNLECGVITR 342
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 176 LKJNDYRLAMFEANPNPFIPLPHOCDAEALFYUNGKOTITFYVHNKESINVOGRITVS 235
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QY 343 IPACTEVLINRDNNEMLIAKFLQITSPFGYKEFPFAGGONPERPVSTESKIEBAAL 4025  
Db VASITIVVVVSQNDQEKLTATLALPNNPGYTELFFPAGNNKPFESYAGASYEVLETF 229  
QY 403 NTQTEKLGVEFGOOR-----EGVILASQEQIRELTRDSESRHHIIRGSESSRCP 454  
Db NTQREKEELEEBROQKROQGOOGGFRKAKPEQIRAIISQATSPRH----RGGE-RLA 349  
QY 455 YNLNRKAPLYSNKYGAYVEKPEDYRLOLMDMLSFYIANVYQSGMGEFFNTSTKYVV 514  
Db INLLSQPVYSNONGFFPACBEDPSQOQMDVAASAPKLQGAIPVPHNSKATFVVFV 409  
QY 515 ASGADVEMACPHLSRHHGGRGGR--RHEEEDV-----HYQVAPRLSKETAVILA 566  
Db 410 TDGIGVIAQMACPHLSHQSGQSGQSDRDEQEBEESSEETFEFGFQVYKAPLSPGVFAVA 469  
QY 567 GHVPVYVSSGNENLTLFAGFINAQNHNHFLAGGERNAVLOQIBQAMELAFAAPREVEB 626  
Db 470 GHAVTFEASHDQGLNVAVFGLAQNQNGRIPLAGK-KULYVQMOBEAKELISFVPSKLVN 528  
QY 627 SFNSQOSQIFFPQGRHQOQOSPRSTKQOQPLVSLIDF 663  
Db 529 IFNNPDESTFMSFSQQRQ---RDERRNPPLASTIDF 562

RESULT 3  
US-07-955-905A-23

; Sequence 23, Application US/07955905A  
; Patent No. 5770433

? GENERAL INFORMATION :  
 ? APPLICANT :  
 ? TITLE OF INVENTION : RECOMBINANT 47 AND 31 kD COCOA PROTEIN  
 ? TITLE OF INVENTION : PRECURSOR  
 ? NUMBER OF SEQUENCES : 28  
 ? COMPUTER READABLE FORM :  
 ? MEDIUM TYPE : Floppy disk  
 ? COMPUTER : IBM PC compatible  
 ? OPERATING SYSTEM : PC-DOS/MS-DOS  
 ? SOFTWARE : Patent in Release #1.0, Version #1.25 (EPO)  
 ? CURRENT APPLICATION DATA :  
 ? APPLICATION NUMBER : US/07/955,905A  
 ? FILING DATE : 21-JUN-1993  
 ? CLASSIFICATION : 435  
 ? INFORMATION FOR SEQ ID NO: 23 :  
 ? SEQUENCE CHARACTERISTICS :  
 ? LENGTH: 587 amino acids  
 ? TYPE: amino acid  
 ? TOPOLOGY: linear  
 ? MOLECULE TYPE: protein  
 ? ORIGINAL SOURCE :  
 ? ORGANISM : *Gossypium hirsutum*  
 ? FEATURE :  
 ? NAME/KEY : Protein  
 ? LOCATION : 1..587  
 ? OTHER INFORMATION : /note= "Vicillin from *G. hirsutum*"  
 ? INS-07-955-905A-23

Query Match	30.4%	Score 1075;	DB 1;	Length 587;
Best Local Similarity	38.6%	Pred. No. 1	1e-87;	

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QY      76 DDDPTECCOCCQRRCRQOESGPRQOQYCGRRCK-ETCEEEYENRQDPQOOYECCKHQ 134
Db      35 DDPKRYEDRRRCRCMDTRQKQOCCCESSCYGCKDQGNHRREDPRRYEECGQC- 93
QY      135 RRETERPMQTCGRCERREYKCKRQQRVEEQOQREDEKTEENMKEDNKRDPQREY 194
Db      94 -RQEEERQRCQCCQRC--TRFEQOQOQ-----SQRF 123
QY      195 EDCRRRCQEQ--PROOHCOLRCRQOQROHGRGDMNPNR-----GSGRYEEBEE 246
Db      124 QECQNHQOQEQPRKQOQVACSECRQV-----NPMRREBEBAEEETEEBEOE 175

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QY 247 QSDNPIYFPERKSLSTRFRTBEGHISVLENNYGSKLLRKLKRYLLVLEANNPAFVLPFH 306
Db 176 QSHNPFHFRRRSFOSFREHEGNGFRVLQRFASHHPILRGINERTLSILEANPTEVLPFH 235
QY 307 LDADAILVIGRGLKMTHHNDRSEVYNLECGVIRIIPAGTFEYLLNPNDRNEETHAKFL 366
Db 236 CDAEKIYLTNGRGTITFLTHEKESYVNPQGVVWVPAGSTVYLLNODKEKLLIATVUH 295
QY 367 QTISTRPGYKEFPFPAQGNPEBYLSTFSKEILLEAINTOTEKLRGVG-----QOREG 419
Db 296 RRVNNPROGEEFFPAPGSQRQGYLRAFSEIILEPANTHSEQJDELFPGGQSHRRQGG 355
QY 420 VITRASQOIRBLTRDSESRHMHIRRGESSRGPNLFNKRLYENKTKQAYEVPEDY 479
Db 356 MFKRASQEOIRALSQBATPPR-----EKSGS-RFAFNLLYRTERYENONGRFEACPPREF 409
QY 480 RQLOQMDLSVFLANTQSGMGMGFENTRSTKVYVVSAGDAVMACPHLSGRHGRGGGK 539
Db 410 RQLSINIVTSALQNLQSGI FVPHYNSKATFVVLVNBGNGYEMVSPHLPRQSGFEEBEE 469
QY 540 RHEEBEDV-----HYEQVRLARSKEEATVVLGHPVVPVVSNGENILLFPAFG-----IN 588
Db 470 QOQEQEGBEERRSQGYRKIRSQLSRBDIFVPANPFVTYFAQNGQNLBMGTGFLYNNIN 529
QY 589 KQNNHENFLAGERNVLQOIEPQAMELAPAPKXEYBESFNQSDQSI FPPGPPHQOQS 647
Db 530 PDHNRIRFVAGKINH-V-RQWDSJAKIAGVSSRLVDEIFNNNPQSFYFS-RQRPAS 586

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1  RESULT 4
2  US-09-106-872A-4
3  ; Sequence 4, Application US/09106872A
4  ; Patent No. 6486311
5  ; GENERAL INFORMATION:
6  ; APPLICANT: Burks Jr., A. Wesley
7  ; APPLICANT: Stanley, J. Steven
8  ; APPLICANT: Cockrell, Gael
9  ; APPLICANT: King, Nina E.
10 ; APPLICANT: Sampson, Hugh A.
11 ; APPLICANT: Helm, Ricki M.
12 ; APPLICANT: Bannou, Gary A.
13 ; TITLE OF INVENTION: Peanut Allergens and Methods
14 ; FILE REFERENCE: HS 103 CIP
15 ; CURRENT FILING DATE: 1999-06-29
16 ; PRIOR APPLICATION NUMBER: PCT/US96/15222
17 ; PRIOR FILING DATE: 1996-09-23
18 ; NUMBER OF SEQ ID NOS: 23
19 ; SOFTWARE: PatentIn Ver. 2.1
20 ; SEQ ID NO 4
21 ; LENGTH: 626
22 ; TYPE: PRT
23 ; ORGANISM: Archaeis hypogaea
24 ; FEATURE:
25 ; OTHER INFORMATION: Amino Acids 25-34 are Ara H 1 binding epitope,
26 ; OTHER INFORMATION: peptide 1
27 ; OTHER INFORMATION: Amino Acids 48-57 are Ara H 1 binding epitope,
28 ; OTHER INFORMATION: peptide 2
29 ; OTHER INFORMATION: Amino Acids 65-74 are Ara H 1 binding epitope,
30 ; OTHER INFORMATION: peptide 3
31 ; OTHER INFORMATION: Amino Acids 89-98 are Ara H 1 binding epitope,
32 ; OTHER INFORMATION: peptide 4
33 ; OTHER INFORMATION: Amino Acids 97-106 are Ara H 1 binding epitope,
34 ; OTHER INFORMATION: peptide 5
35 ; OTHER INFORMATION: Amino Acids 107-116 are Ara H 1 binding epitope,
36 ; OTHER INFORMATION: peptide 6
37 ; OTHER INFORMATION: Amino Acids 123-132 are Ara H 1 binding epitope,
38 ; OTHER INFORMATION: peptide 7
39 ; OTHER INFORMATION: Amino Acids 134-143 are Ara H 1 binding epitope,
40 ; OTHER INFORMATION: peptide 8
41 ; OTHER INFORMATION: Amino Acids 143-152 are Ara H 1 binding epitope,
42 ; OTHER INFORMATION: peptide 9
43 ; OTHER INFORMATION: Amino Acids 294-303 are Ara H 1 binding epitope,
44 ; OTHER INFORMATION: peptide 9

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[illegible]

Query Match	24.0%;	Score 850.5;	DB 4;	Length 626;
Best Local Similarity	34.4%;	Pred. No. 1.7e-67;		
Matches 212;	Conservative 108;	Mismatches 204;	Indels 93;	Gaps 20

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QY 93 ESGRPOQY---CQRKCEIEEBEENKROKDPOOYQOQCKHQCRRETERP-----H 142
Db 26 KSSPQKKTENPCQRCLQSCQOEEDDKQK-----ACSRCKLEYDPKCVYDPGCH 78
QY 143 MOTOQORC---ERR-----YEKKRQOQRVEEQOEDEBKYEERKKEEDNKKDPOOR 192
Db 79 TGTINQRPPEGRTRGRQPDYDDRR--QPRREGGHWGPAGPREREREED-WROPR-- 133
QY 193 EYEDRRRCCEQOEPRQHQOQLRCBEOQROHGRGCDMMNPOGSGRYEGBEEOSDMPY 252
Db 134 --EDMRKRSHQ-PR-----KRPREGREB---QEWGPRGSHVRETRRNPF 175
QY 253 YFDERSLSTRTEREGHISVLENFYGRSKLRLALKNYVLVLEANPNAFVLPETHLDADI 312
Db 176 YFSPRSFSTRYGNQNGRIRVLGRFQGRQONLQNHRIYQIBAKFNVLVLPKHADANI 235
QY 313 LLYVIGRGALKMIIHNDNESTYLBEGDVIRIIPACTFPLINRDNNEHLIAKFLTOTIS 372
Db 236 LVIQOGQATVTVANGNNKRSFNLDGHALRIPSGEISYILNRHDQNLVAKISMPVNT 295
QY 373 GOYKEFPAGQNPPEVLYSTFSKTELLEALMTQTEKLGVF-----GQOR--- 417
Db 296 GQFEDFFPASSRDQSSYIQEFSRNTLEAFNAEFNEIRVLLEENAGBQOEERGRKRNST 355
QY 418 -----EEVIRASQEQIRELTRDSDSRMHIRRGSGSSG---PYNLFNKRLPYENK 467
Db 356 RSENNNEGYIKVSEHVEELTKAKS-----VSKKSGEEDGINPYNLRGCEDDLNN 410
QY 468 YGOAYEVKPEDYR-QLQMDLSVFIVANTQSGMGPFFNTRSTKVYVVASGEADVEMACP 526
Db 411 FGKLFVEXPKDKNPQLQDLDMMLTGVEIKEGALMLPHFNSKAMVIVVNNKGTGNELVAV 470
QY 527 HLSGHHGRGGGKXHEEEDVHYE---QVR---ARLSKREIVLVLAGHPVYVSSGNN 579
Db 471 RKEQOQROR---REEEEDDEEBEGSNREVRRTYARLKEGVIFILPAHPAVAINSSSEIL 527
QY 580 LLLFAFGINANNHENPLAGREBNVLOOIEQAMELAAAPRKVEESFNSODOSIFPPG 639
Db 528 LL--GFGINANNHETFLAGDKNDVTDIDIEKQADKLAFPGSGEOVEUKIKQOKESHFVSA 585

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QY      640 PRHQOOSPRSTKOQP 656
Db      586 RPOSQSQSPSSPEKSP 602

RESULT 5
US-07-955-905A-24
; Sequence 24, Application US/07955905A
; Patent No. 5770433
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: RECOMBINANT 47 AND 31 kD COCOA PROTEINS AND
; TITLE OF INVENTION: PRECURSOR
; NUMBER OF SEQUENCES: 28
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/955,905A
; FILING DATE: 21-JAN-1993
; CLASSIFICATION: 435
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 605 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..605
; OTHER INFORMATION: /note= "Vicilin from G. max"
US-07-955-905A-24

Query Match      23.7%; Score 838.5; DB 1; Length 605;
Best Local Similarity 31.7%; Pred. No. 1,9e-66;
Matches 198; Conservative 131; Mismatches 212; Indels 83; Gaps 16

QY      72 YDNDPOTECQQCCQRRCQDSGPRQOQCQRCC-----KEICEEENYRQDPDPOQ 125
Db      27 YWEKENPFGH-NKCLQSCNSERDSYRQA-CHARCNLKVKEBEEBEEBEPFRPRPQHP 83

126 YEQQCKHQKQRETE-----PRHMQTCCQRCRRYEKE-KRKOQRYEQQREDEBK 175
Db      84 ERBPQCPQSKEDBEDQPRPIPRPQPROBQEBHQBEQEWPRKEKRGKSGSEEDB- 142

176 YEERKKEBDNRKDPQOREYEDCRRCQEQPRQHQCCRCQEQQRQGRGGDMNPPRG 235
Db      143 -----DEDEQDERQFPF-----PRPPQKEERNEEB-----DEDEEQOR 177

236 GSGGYEEGE--EESQNDPYFDERSLSTRFTBEGHISVLNFIYGRSKTLALKNYRLVL 293
Db      178 ESESESESESLRRHKKNKPNFLFESNRFETLFGKQYGRIRIVLGRPNQRSPLQNLNDRYLE 237

QY      294 LEANPNFVLRLTHDADAILLVIGRGALKYIHDNRSSNYLCEGDVIRIPAGTFFYLIN 353
Db      238 FNSKPNLILNNAHDADYLVILNGTALISLVNNDRDSYVLQSGDALRVPSGTTYVVVN 297

QY      354 RDNNERLHIAKFLQTIISTPGQYKEFFPAGQNPPEYLSYTFSEKILEALNQTOKLRGVF 413
Db      298 PDNNENLRILTIALPVKKPGRFESFPFLSSTAQOSYLOGFSRNILIASYDTKFEINKVL 357

QY      414 -----GQQR--EGYIIPASGEQIRLRTDSESHMHMIRAGGESSRGPYULFNKRP 462
Db      358 FSRREGQOQGEORLOESIVIEISKEQIRALSKRAKSS-----RTISSEDKPFLNRSDP 413

QY      463 LYSKYGQAVYVRKEDYRQLODMLSVFIANVITQSGMMGPFNTRSTKTVVVVVASGEADVE 522
Db      414 IYSNKLKGFETITPEKPKQRLDILFISIVMNGSALLPFNSKALVIVIVINDGNANIE 473

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QY      523  MACEPHLSGNHGAGGK-----RHEEEDVHYEQVAAKLSKRAIVLVLAGHPVYVSSGN 577
Db      474  LV-----GKEDQOQEQOQEQEQPLEVARKYVAELSEDDIFVTPGYPVV--NMT 519

QY      578  ENLLPFAGINNQNHNENFLAGERENVLQOIEPOAMELAFAPARKVEASFPNSQDSIFE 637
Db      520  SNLNFPAIGINAMENNQRNFLAGSDQNVISQISQVELAFPGSAQAVETLNKQRESYIV 579

QY      638  PGRCHQOQSPRSTKQOQPLVSTL 661
Db      580  DAQPKKGEKNGKGRK--GPLSSIL 601

RESULT 6
US-07-955-905A-25
; Sequence 25, Application US/07955905A
; Patent No. 5770433
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: RECOMBINANT 47 AND 31 kD COCOA PROTEINS AND
; TITLE OF INVENTION: PRECURSOR
; NUMBER OF SEQUENCES: 28
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/955,905A
; FILING DATE: 21-JAN-1993
; CLASSIFICATION: 435
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 571 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Pisum sativum
; FEATURES:
; NAME/KEY: Protein
; LOCATION: 1..571
; OTHER INFORMATION: /note= "Convicillin from P. sativum"
US-07-955-905A-25

Query Match      23.2%; Score 821.5; DB 1; Length 571;
Best Local Similarity 33.4%; Pred. No. 5.8e-65;
Matches 195; Conservative 110; Mismatches 184; Indels 95; Gaps 15;

QY      111  EEESEYVRORPQQOQYEQCGHCQRRETPRHMQTCQRCGRVREKREKQK-----RYE 166
Db      48  EGEKEBKRRHGWRSYEK-EHEHEKQ-----KYRYQREKQEQKQVQGER 93

QY      167  EQQREDEKTYHEMKEDNKRDPOQREYEDCRRCEQOEPROHQCOLRCQOQROHGRG 226
Db      94  WEREDEBOVEEWRGSGQREDPEER-----ATLRHEERTKDR- 133

QY      227  GDMNPGRGSGRYEESEBOSDNPYFEDRSLSSTRPTEGHSVLNPFYGRKTLRAL 286
Db      134  ----RHQRBGEHEERSESQEHNPFLFKNKLTLLTENENGHRIQRDPKRSDLPENL 189

QY      287  KNYVLVLEANPNAFVLPTHLDADLILVIGRGALMTIHNDNYSYLNCGDYIRIPAG 346
Db      190  QNYVLVEYRAKPHPIFLPGHIDADLILVNLGKAILTVLSPNDNRSYNLNRGDTIKIPAG 249

QY      347  TTFLINRDNNEELHIAKFLQTIISTPQGYKEFPFAGQNPYLSSTSKELLEALNTQT 406
Db      250  ITSLIVQDDEEDLVVDVFIPIVNRPGKFAF--GLSENKQVLRGFSKNILKESLNTKY 307

QY      407  EKLRGVF-----GQGEGVYIRASQEOIRELTDDSESHMHIRG 447
Db      308  ETLEKVLLEQOEKKRPOOLRDKRTQOGEERD-ATIKVSPTDTETPIGTAVSC---YIC 360

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RESULT 7
US-09-424-283-1
; Sequence 1, Application US/09424283
; Patent No. 6437219
; GENERAL INFORMATION:
; APPLICANT: Grimes, et al.
; TITLE OF INVENTION: Sucrose binding proteins
; FILE REFERENCE: 4630-50206
; CURRENT APPLICATION NUMBER: US/09/424,283
; CURRENT FILING DATE: 1999-11-19
; PRIOR APPLICATION NUMBER: PCT/US98/10465
; PRIOR FILING DATE: 1998-05-21
; PRIOR APPLICATION NUMBER: US 60/047,568
; PRIOR FILING DATE: 1997-05-22
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO. 1
; LENGTH: 524
; TYPE: PRT
; ORGANISM: Glycine max
US-09-424-283-1

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RESULT 8
US-09-424-283-3
; Sequence 3, Application US/09424283
; Patent No. 6437219
; GENERAL INFORMATION:
; APPLICANT: Grimes, et al.
; TITLE OF INVENTION: Sucrose binding proteins
; FILE REFERENCE: 4630-50206
; CURRENT APPLICATION NUMBER: US/09/424, 283
; CURRENT FILING DATE: 1999-11-19
; PRIOR APPLICATION NUMBER: PCT/US98/10465
; PRIOR FILING DATE: 1998-05-21
; PRIOR APPLICATION NUMBER: US 60/047,568
; PRIOR FILING DATE: 1997-05-22
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 489
; TYPE: PRT
; ORGANISM: Glycine max
US-09-424-283-3

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QY 179 AKMEDNDKRD- - - - -OQREYD- - - - -CRRRCQQRPRROHOCALCRQDQROH 223
Db 27 KUKREVEDEBVLCTKHQCCQQRKYTESDKRTCLQQCCDSMKQOEKQVBEETREEBEH 86
QY 224 GRGGDMNPNORQSGSGRYEEGEBEGEBOQDNVYPDE- RSLSTRFTYEBGHSVLNPFYGRKYL 282
Db 87 - - - - -OQHEEBEEDENPVFEEDKQFSTRVETEGGSIRVLKKTETSKYL 130
QY 283 LRALKNYLVLLEANNPNAFVLPPTHLDALILLVIGRGALKMHINDNESYVLCEGDVIR 342
Db 131 LOGIENFPLATILEAAHTFVSPRPHDSEVLNIGRAVLGLVRESETEKITLLEGQDMKH 190
QY 343 IPAGTTFPLIRNDNNRERLHIAKFLTQTSITPGQYKEFPAGQGNPEPYLSTFESKILEAL 402
Db 131 IPAGTFLPIVNRDENEKILLMLMLHIVSTPGKFEEFPFGCGNDPESVLSAFSMVNLQAL 250
QY 403 NTQTEKLGAVFGQOREGVITIRASQOQITELTRDSESRHMHITRRGESSRGQYNLPNKR 462
Db 251 QTPKCKELRLETFNOQNBEGSIFKISRERVYALA-PTKXSMWMP- - -GGE-SKAQFNFSKRP 306
QY 463 LYSNXYGOAVEYKPEPDYRQ-LQDMDLSFVIANVTGSGMMGPFENRSTFKVVVVASGEADV 521
Db 307 TFSNGYGLTVEGPRDEKSWLQRLNMLTLFTNITRSMSTIHYNBHATKIALVMQGRGL 366
QY 522 EMACPHLSGRHQGRGKRGHREEDDVHYEQVRLSKREALVYLAGHPVYVSGENILL 581
Db 367 QISCCHMSRSRDSK- - - - -HDKSSPSYHRISADLKPGVAFVVRPGHPVITIASKKNELL 420
QY 582 LEAFIINNHNHENLAGRERNVLQOIEPQAMELAFAPARKVEEVSFNQODSIFFPQPR 641
Db 421 IICEFVNVRDNKKFTFACKD-NIVSSLDVAKELAFNFP-SEMNVGVSEKSLTFPPBL 478
QY 642 OHQOQSPRS 650
Db 479 PSEERGRRA 487

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US-03-424-203				
Query Match	19.8%;	Score 700.5;	DB 4;	Length 409;
Best Local Similarity	36.5%;	Pred. No. 2.5e-54;		



Dd	80	ADFLVLVLSGATLITLVKSDNRNPFNLERGAILTPAGSIAYFANRDNDEPRVLDLAIP	139
Oy	369	ISTGQYKEFFPPAGGONPEPYLSTFFSKELLIALINTOTEKLRGVFGQR-----	417
Dd	140	VNRGQLOSLFLLSTGQNKOKSLSGFSKNLLEAENTVYEIEKYLLEQGEQEPQHRSLK	199
Oy	418	-----EGYIIRASQOIRRELTNRDSESHHRIIRGGESSRPPVYLFNRRPLYSKYG	469
Dd	200	DRQREINEENVIVKVSBDQIEELSKNKKSS---KKSVSSESGPFLNRSPLYSNKPG	255
Oy	470	QAYVEKPEDYRQLODMDSLVFIANVTQGSMMGPFFNTIRSTTVVVVAGADVENAACPILS	529
Dd	256	KFEFITEBKQLODDLIPIANSVIXKXGSLLPYNNRATYIVYVTEKGDFELVGR--	313
Oy	530	GRHGRGGGKKRHEEEDV--HYEVRARLSKREAIIVYLACHPVVVSNGENLLLPAGI	587
Dd	314	NENGGKENDKEEGBEEFSSKQVLYRAKLSFGDGVFIAPGHPVAINMSSDLNLI--GLGI	371
Oy	588	MAONNHENFLAGRRNVLOQIEPQAMELFAAPKEVB	625
Dd	372	NAENNERNFLAGEDNVISQVERPVKEIAFPGSSHEVD	409
RESULT 13			
US-09-323-195A-17			
; Sequence 17, Application US/09323195A			
; Patent No. 6462257			
; GENERAL INFORMATION:			
; APPLICANT: Pullman, Gerald			
; APPLICANT: Cairney, John			
; TITLE OF INVENTION: VICILIN-LIKE SEED STORAGE PROTEIN GENE PROMOTER AND			
; TITLE OF INVENTION: METHODS OF USING THE SAME			
; FILE REFERENCE: IPST0009			
; CURRENT APPLICATION NUMBER: US/09/323, 195A			
; NUMBER OF SEQ ID NOS: 19			
; SOFTWARE: PatentIn Ver. 2.0			
; SEQ ID NO 17			
; LENGTH: 523			
; TYPE: PRT			
; ORGANISM: Pinus taeda			
US-09-323-195A-17			
Query Match 19.6%; Score 692.5; DB 4; Length 523;			
Best Local Similarity 35.4%; Pred. No. 1,9e-53;			
Matches 155; Conservative 82; Mismatches 166; Indels 35; Gaps 10;			
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Dd	40	HGRG-----HQREEREENPVFFHSDRFRMRASSDAGEIRALPNFGESSEL	86
Oy	283	LRLAKNTRVLLEAPNPAFLVPLTLDADAILVYGGGALKMTHDNRESINLECGVIR	342
Dd	87	LEGSKRVLCIERPPTVMLPHLIDATWLVYGGGYAYVHQNELVYRKLEEGDVFG	146
Oy	343	IPAGTTFYLINRDNNEKHLAKFLQITST--PGCYKEFFPAGGONPEPYLSTFFSKELLIEAA	401
Dd	147	VPSHTITVLYVNDNDHNSIRITSLIKTIVSYNRGEIEPYVAGGRPEYVYASFSDVLEAA	206
Oy	402	LNTOTELKLRGVFGQ--QREGVILIRASQOIRRELT RD-----DSESRMHRIIRGESSRGP	454
Dd	207	FNTVTEARHTFPHVIRRESYSM--ANEQIREMLRKKGFSMESWSASBHPK-----P	257
Oy	455	YNLEPNKRPILSNKKGQAYEVKPEDYRQLOMDLSVFILANTQGSMMGPFFNTBSTKTVVV	514
Dd	258	FNLENNQRPDEENDNGRFTTAGPNENPLIDADVTAGCVLNPGMTAPSHNTKATSIATV	317
Oy	515	ASGEADVEMACPHLSGRHGGGCGKGRHEEEDVYEEQVRLARLSKREAIIVYLACHPVVFS	574
Dd	318	TQSGRIEMACPHL--GQHG--MSSRREKGDDEIVIQVRLARLRGTIVVYPAGHPITIEA	374
Oy	575	SGNENLLIFAGINAOHNHENFLAGRRNVLOQIEPQAMELFAAPR-KEYEVSFNSODQ	633

Search completed: February 15, 2005, 18:02:59  
Job time : 42.742 Secs



Db 1 MAINTSNLCSLLFLSLFLSTTVSLAESFDRQYECKRCQMLTSGMRCSVSCD 60  
 QY 61 KRFEEDIDMSKYNDQDDPQTDCCQCCORRCQOESGPRQOQYCORCKEICEEBEYNROR 120  
 Db 61 KRFEEDIDMSKYNDQDDPQTDCCQCCORRCQOESGPRQOQYCORCKEICEEBEYNROR 120  
 QY 121 DPOQOYECQCCORRHETEPHMQTCQORCERRYEKEKQKRYEBOQREDEKYEERM 180  
 Db 121 DPOQOYECQCCORRHETEPHMQTCQORCERRYEKEKQKRYEBOQREDEKYEERM 180  
 QY 181 KEEDNKDPOQREYEDCRRRCQOEPQOYQOCCORRCQOHRGGLINPORGSGRY 240  
 Db 181 KEEDNKDPOQREYEDCRRRCQOEPQOYQOCCORRCQOHRGGLINPORGSGRY 240  
 QY 241 BEGEKQSDNPPYFDEBSLSTRFTEBEGHISYLENFGYSKILRALKNYRLVLEANPNA 300  
 Db 241 BEGEKQSDNPPYFDEBSLSTRFTEBEGHISYLENFGYSKILRALKNYRLVLEANPNA 300  
 QY 301 FVLPTHLDADAFLVLTGGRGALKMHRDNRESYNLECGDVIRIPAGTTFYLINRDNNEERL 360  
 Db 301 FVLPTHLDADAFLVLTGGRGALKMHRDNRESYNLECGDVIRIPAGTTFYLINRDNNEERL 360  
 QY 361 HIAKFLQITISTPGQYKEFFPAGQNPBEPYLSFSEKELLEALNTQAEERLQVLCQOREGV 420  
 Db 361 HIAKFLQITISTPGQYKEFFPAGQNPBEPYLSFSEKELLEALNTQAEERLQVLCQOREGV 420  
 QY 421 IISASQEOIRLETRDSSRRWHIRRGESSRGPNLFNKRPVSNKYGQAYEYKPEBYR 480  
 Db 421 IISASQEOIRLETRDSSRRWHIRRGESSRGPNLFNKRPVSNKYGQAYEYKPEBYR 480  
 QY 481 QLODMDSVFIANTTQSGMMGPFNTRSTKVVVVAASGADVEMACPHLSGHRGGRGGR 540  
 Db 481 QLODMDSVFIANTTQSGMMGPFNTRSTKVVVVAASGADVEMACPHLSGHRGGRGGR 540  
 QY 541 HEEEDVHYEQVKARLSKREAIIVPVGHVVFVSSGNENLLFAGINAQNNHENFLAGR 600  
 Db 541 HEEEDVHYEQVKARLSKREAIIVPVGHVVFVSSGNENLLFAGINAQNNHENFLAGR 600  
 QY 601 ERNVLQOIEPQAMELAFAAPRKEVEELFNSQDESIFFPGPRHOQOQSSRSTKQOQPLVSI 660  
 Db 601 ERNVLQOIEPQAMELAFAAPRKEVEELFNSQDESIFFPGPRHOQOQSSRSTKQOQPLVSI 660  
 QY 661 LDFVGF 666  
 Db 661 LDFVGF 666

RESULT 2  
 US-10-147-095-3  
 ; Sequence 3, Application US/10147095  
 ; Publication No. US20030171274A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Manners, John M.  
 ; APPLICANT: Marcus, John Paul  
 ; APPLICANT: Goulter, Kenneth C.  
 ; APPLICANT: Green, Jodie L.  
 ; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
 ; FIDE REFERENCE: CULN23.001APC  
 ; CURRENT APPLICATION NUMBER: US/10/147,095  
 ; CURRENT FILING DATE: 2002-05-15  
 ; PRIOR APPLICATION NUMBER: US/09/331,631A  
 ; PRIOR FILING DATE: 1999-06-21  
 ; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
 ; PRIOR FILING DATE: 1997-12-22  
 ; PRIOR APPLICATION NUMBER: AU PO 4275  
 ; NUMBER OF SEQ ID NOS: 40  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO. 3  
 ; LENGTH: 666  
 ; TYPE: PRT  
 ; ORGANISM: Macadamia integrifolia  
 ; FEATURE:

APPD

NAME/KEY: SIGNAL  
 ; LOCATION: (1)...(28)  
 ; FEATURE:  
 ; NAME/KEY: PEPTIDE  
 ; LOCATION: (29)...(666)  
 US-10-147-095-3

Query Match 100.0%; Score 3532; DB 14; Length 666;  
 Best Local Similarity 100.0%; Pied. No. 2.5e-265;  
 Matches 666; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAINTSNLCSLLFLSLFLSTTVSLAESFDRQYECKRCQMLTSGMRCSVSCD 60  
 Db 1 MAINTSNLCSLLFLSLFLSTTVSLAESFDRQYECKRCQMLTSGMRCSVSCD 60  
 QY 61 KRFEEDIDMSKYNDQDDPQTDCCQCCORRCQOESGPRQOQYCORCKEICEEBEYNROR 120  
 Db 61 KRFEEDIDMSKYNDQDDPQTDCCQCCORRCQOESGPRQOQYCORCKEICEEBEYNROR 120  
 QY 121 DPOQOYECQCCORRHETEPHMQTCQORCERRYEKEKQKRYEBOQREDEKYEERM 180  
 Db 121 DPOQOYECQCCORRHETEPHMQTCQORCERRYEKEKQKRYEBOQREDEKYEERM 180  
 QY 181 KEEDNKDPOQREYEDCRRRCQOEPQOYQOCCORRCQOHRGGLINPORGSGRY 240  
 Db 181 KEEDNKDPOQREYEDCRRRCQOEPQOYQOCCORRCQOHRGGLINPORGSGRY 240  
 QY 241 BEGEKQSDNPPYFDEBSLSTRFTEBEGHISYLENFGYSKILRALKNYRLVLEANPNA 300  
 Db 241 BEGEKQSDNPPYFDEBSLSTRFTEBEGHISYLENFGYSKILRALKNYRLVLEANPNA 300  
 QY 301 FVLPTHLDADAFLVLTGGRGALKMHRDNRESYNLECGDVIRIPAGTTFYLINRDNNEERL 360  
 Db 301 FVLPTHLDADAFLVLTGGRGALKMHRDNRESYNLECGDVIRIPAGTTFYLINRDNNEERL 360  
 QY 361 HIAKFLQITISTPGQYKEFFPAGQNPBEPYLSFSEKELLEALNTQAEERLQVLCQOREGV 420  
 Db 361 HIAKFLQITISTPGQYKEFFPAGQNPBEPYLSFSEKELLEALNTQAEERLQVLCQOREGV 420  
 QY 421 IISASQEOIRLETRDSSRRWHIRRGESSRGPNLFNKRPVSNKYGQAYEYKPEBYR 480  
 Db 421 IISASQEOIRLETRDSSRRWHIRRGESSRGPNLFNKRPVSNKYGQAYEYKPEBYR 480  
 QY 481 QLODMDSVFIANTTQSGMMGPFNTRSTKVVVVAASGADVEMACPHLSGHRGGRGGR 540  
 Db 481 QLODMDSVFIANTTQSGMMGPFNTRSTKVVVVAASGADVEMACPHLSGHRGGRGGR 540  
 QY 541 HEEEDVHYEQVKARLSKREAIIVPVGHVVFVSSGNENLLFAGINAQNNHENFLAGR 600  
 Db 541 HEEEDVHYEQVKARLSKREAIIVPVGHVVFVSSGNENLLFAGINAQNNHENFLAGR 600  
 QY 601 ERNVLQOIEPQAMELAFAAPRKEVEELFNSQDESIFFPGPRHOQOQSSRSTKQOQPLVSI 660  
 Db 601 ERNVLQOIEPQAMELAFAAPRKEVEELFNSQDESIFFPGPRHOQOQSSRSTKQOQPLVSI 660  
 QY 661 LDFVGF 666  
 Db 661 LDFVGF 666

RESULT 3  
 US-09-331-631A-1  
 ; Sequence 1, Application US/09331631A  
 ; Patent No. US20020168392A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Manners, John M.  
 ; APPLICANT: Marcus, John Paul  
 ; APPLICANT: Goulter, Kenneth C.  
 ; APPLICANT: Green, Jodie L.  
 ; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
 ; FIDE REFERENCE: CULN23.001APC  
 ; CURRENT APPLICATION NUMBER: US/09/331,631A  
 ; CURRENT FILING DATE: 1999-06-21

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; PRIOR APPLICATION NUMBER: PCT/AU97/00874
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: AU PO 4275
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 1
; LENGTH: 666
; TYPE: PRF
; ORGANISM: Macadamia integrifolia
US-09-331-631A-1

```

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Query Match      96.6%; Score 3412; DB 9; Length 666;
Best Local Similarity 96.1%; Pred. No. 5.1e-256;
Matches 640; Conservative 12; Mismatches 14; Indels 0; Gaps 0;

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QY 1 MAINTSNLCSLFLSLFLSLFTVSLAESEFPDROEYEECKRCQCMQLETSGMRCVSCD 60
DB 1 MAINTSNLCSLFLSLFLSLFTVSLAESEFPDROEYEECKRCQCMQLETSGMRCVSCD 60
QY 61 KRFEEDIMSKYDNDODPOTDCCQCCORRCQOESGPRQOYCQRCKEICEEEBYNRQR 120
DB 61 KRFEEDIMSKYDNDODPOTDCCQCCORRCQOESGPRQOYCQRCKEICEEEBYNRQR 120
QY 121 DPQOQYECQCKHCOHRETEPRHMQTCQOCERRYEKERRKQKRYEEOQREDEEYERBM 180
DB 121 DPQOQYECQCKHCOHRETEPRHMQTCQOCERRYEKERRKQKRYEEOQREDEEYERBM 180
QY 181 KEEDNKRPDQOQREYEDCRRRCQOESGPRQOYCQRRCQOESGPRQOYCQRCKEICEEEBYNRQR 240
DB 181 KEEDNKRPDQOQREYEDCRRRCQOESGPRQOYCQRRCQOESGPRQOYCQRCKEICEEEBYNRQR 240
QY 241 BEGEEKOSDNPYPYFEDRSISTRTFTEEGHISYLENFYGRSKLLRALKNYRLVLEAPNA 300
DB 241 BEGEEKOSDNPYPYFEDRSISTRTFTEEGHISYLENFYGRSKLLRALKNYRLVLEAPNA 300
QY 301 FVLPTHLADAILLVYGGRGALKMIHNDRESYNLECGDVIRIPAGTTFYLLINRDNNERL 360
DB 301 FVLPTHLADAILLVYGGRGALKMIHNDRESYNLECGDVIRIPAGTTFYLLINRDNNERL 360
QY 361 HIAKFLQITISTPGQYKEFFPAGGONPEYLSFSEKILEALANTQAERLGVLGQOREGV 420
DB 361 HIAKFLQITISTPGQYKEFFPAGGONPEYLSFSEKILEALANTQAERLGVLGQOREGV 420
QY 421 IISASQEQIRELTRDDESRRHMRGESSRGPYNLFNKRPVLSNKYGOAYEVPEBYR 480
DB 421 IISASQEQIRELTRDDESRRHMRGESSRGPYNLFNKRPVLSNKYGOAYEVPEBYR 480
QY 481 QIOMDVSVFIANTTQSGMMGPFNTSTKVVVAVASGADVEMACPHLSGRHGGRGGR 540
DB 481 QIOMDVSVFIANTTQSGMMGPFNTSTKVVVAVASGADVEMACPHLSGRHGGRGGR 540
QY 541 HEEEDVHYEQKARLSKREAIIVPVGHPVVFVSSGNNLLFARGINAONNHENFLAGR 600
DB 541 HEEEDVHYEQKARLSKREAIIVPVGHPVVFVSSGNNLLFARGINAONNHENFLAGR 600
QY 601 ERNVLQIQIEPQAMELAFAPRKEVELEFNSQDESIFPQPROHQOQSSRSTKQOQPLVSI 660
DB 601 ERNVLQIQIEPQAMELAFAPRKEVELEFNSQDESIFPQPROHQOQSSRSTKQOQPLVSI 660
QY 661 LDFVGF 666
DB 661 LDFVGF 666

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RESULT 4
US-10-147-095-1

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; Sequence 1, Application US/10147095
; Publication No. US20030171274A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.

```

```

; APPLICANT: Green, Jodie L.
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; FILE REFERENCE: CULIN23.001APC
; CURRENT APPLICATION NUMBER: US/10/147.095
; CURRENT FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: US/09/331.631A
; PRIOR FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: PCT/AU97/00874
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: AU PO 4275
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 1
; LENGTH: 666
; TYPE: PRF
; ORGANISM: Macadamia integrifolia
US-10-147-095-1

```

```

Query Match      96.6%; Score 3412; DB 14; Length 666;
Best Local Similarity 96.1%; Pred. No. 5.1e-256;
Matches 640; Conservative 12; Mismatches 14; Indels 0; Gaps 0;

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QY 1 MAINTSNLCSLFLSLFLSLFTVSLAESEFPDROEYEECKRCQCMQLETSGMRCVSCD 60
DB 1 MAINTSNLCSLFLSLFLSLFTVSLAESEFPDROEYEECKRCQCMQLETSGMRCVSCD 60
QY 61 KRFEEDIMSKYDNDODPOTDCCQCCORRCQOESGPRQOYCQRCKEICEEEBYNRQR 120
DB 61 KRFEEDIMSKYDNDODPOTDCCQCCORRCQOESGPRQOYCQRCKEICEEEBYNRQR 120
QY 121 DPQOQYECQCKHCOHRETEPRHMQTCQOCERRYEKERRKQKRYEEOQREDEEYERBM 180
DB 121 DPQOQYECQCKHCOHRETEPRHMQTCQOCERRYEKERRKQKRYEEOQREDEEYERBM 180
QY 181 KEEDNKRPDQOQREYEDCRRRCQOESGPRQOYCQRRCQOESGPRQOYCQRCKEICEEEBYNRQR 240
DB 181 KEEDNKRPDQOQREYEDCRRRCQOESGPRQOYCQRRCQOESGPRQOYCQRCKEICEEEBYNRQR 240
QY 241 BEGEEKOSDNPYPYFEDRSISTRTFTEEGHISYLENFYGRSKLLRALKNYRLVLEAPNA 300
DB 241 BEGEEKOSDNPYPYFEDRSISTRTFTEEGHISYLENFYGRSKLLRALKNYRLVLEAPNA 300
QY 301 FVLPTHLADAILLVYGGRGALKMIHNDRESYNLECGDVIRIPAGTTFYLLINRDNNERL 360
DB 301 FVLPTHLADAILLVYGGRGALKMIHNDRESYNLECGDVIRIPAGTTFYLLINRDNNERL 360
QY 361 HIAKFLQITISTPGQYKEFFPAGGONPEYLSFSEKILEALANTQAERLGVLGQOREGV 420
DB 361 HIAKFLQITISTPGQYKEFFPAGGONPEYLSFSEKILEALANTQAERLGVLGQOREGV 420
QY 421 IISASQEQIRELTRDDESRRHMRGESSRGPYNLFNKRPVLSNKYGOAYEVPEBYR 480
DB 421 IISASQEQIRELTRDDESRRHMRGESSRGPYNLFNKRPVLSNKYGOAYEVPEBYR 480
QY 481 QIOMDVSVFIANTTQSGMMGPFNTSTKVVVAVASGADVEMACPHLSGRHGGRGGR 540
DB 481 QIOMDVSVFIANTTQSGMMGPFNTSTKVVVAVASGADVEMACPHLSGRHGGRGGR 540
QY 541 HEEEDVHYEQKARLSKREAIIVPVGHPVVFVSSGNNLLFARGINAONNHENFLAGR 600
DB 541 HEEEDVHYEQKARLSKREAIIVPVGHPVVFVSSGNNLLFARGINAONNHENFLAGR 600
QY 601 ERNVLQIQIEPQAMELAFAPRKEVELEFNSQDESIFPQPROHQOQSSRSTKQOQPLVSI 660
DB 601 ERNVLQIQIEPQAMELAFAPRKEVELEFNSQDESIFPQPROHQOQSSRSTKQOQPLVSI 660
QY 661 LDFVGF 666
DB 661 LDFVGF 666

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RESULT 5

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US-09-331-631a-5  
 ; Sequence 5, Application US/09331631A  
 ; Patent No. US20020168392A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Manners, John M.  
 ; APPLICANT: Marcus, John Paul  
 ; APPLICANT: Goulter, Kenneth C.  
 ; APPLICANT: Green, Jodie L.  
 ; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
 ; FILE REFERENCE: CUIJN23.001APC  
 ; CURRENT APPLICATION NUMBER: US/09/331,631A  
 ; PRIOR FILING DATE: 1999-06-21  
 ; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
 ; PRIOR FILING DATE: 1997-12-22  
 ; PRIOR APPLICATION NUMBER: AU PO 4275  
 ; NUMBER OF SEQ ID NOS: 40  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 5  
 ; LENGTH: 625  
 ; TYPE: PRT  
 ; ORGANISM: Macadamia integrifolia  
 ; FEATURE:  
 ; NAME/KEY: PEPTIDE  
 ; LOCATION: (1)...(625)  
 ; OTHER INFORMATION: Partial mature peptide  
 US-09-331-631a-5

Query Match 91.0%; Score 3215; DB 9; Length 625;  
 Best Local Similarity 96.6%; Pred. No. 9.2e-241;  
 Matches 604; Conservative 7; Mismatches 14; Indels 0; Gaps 0;  
 QY 42 QCMQLETSQGMRCVSCQDKRFEEDIDMSKYNDPQDPCQCCQRCRRQSGSPRQOY 101  
 DB 1 QCMQLETSQGMRCVSCQDKRFEEDIDMSKYNDPQDPCQCCQRCRRQSGSPRQOY 60  
 QY 102 CORCKEICEEBEENRQRPQOQYECOCORCHETPRMOTCOQRCERYEKEKQ 161  
 DB 61 CORCKEICEEBEENRQRPQOQYECOCORCHETPRMOTCOQRCERYEKEKQ 120  
 QY 162 QKRYEEOQREDEKEYEEMKEEDNKRDPQOREYEDCRRCCEQOEPRQOYQOCORCREQOR 221  
 DB 121 QKRYEEOQREDEKEYEEMKEEDNKRDPQOREYEDCRRCCEQOEPRQOYQOCORCREQOR 180  
 QY 222 QHGRGDDLINPQGGSGRYEGBEKGSDNPPYFDEBSLSTRFTEEGHISVLENFYGRSK 281  
 DB 181 QHGRGDDLINPQGGSGRYEGBEKGSDNPPYFDEBSLSTRFTEEGHISVLENFYGRSK 240  
 QY 282 LIRALKNYRLVLEANPNAFVLPTHLDADAILVTGGRGALKMIHRDNRESYNIIECGDVI 341  
 DB 241 LIRALKNYRLVLEANPNAFVLPTHLDADAILVTGGRGALKMIHRDNRESYNIIECGDVI 300  
 QY 342 RIPAGTTFYLINRDNNEERLHIAKFLQTIISTPGQYKEFPFAGGONPEPYLSTFSKEILEAA 401  
 DB 301 RIPAGTTFYLINRDNNEERLHIAKFLQTIISTPGQYKEFPFAGGONPEPYLSTFSKEILEAA 360  
 QY 402 LNTQAERLRGVLGOOREGVIISASQEOIRLELTRDSDSRWHIRRGESSGRYNIPNKR 461  
 DB 361 LNTQAERLRGVLGOOREGVIISASQEOIRLELTRDSDSRWHIRRGESSGRYNIPNKR 420  
 QY 462 PLYSKNYGOAYEVKPEYDROLQDMDVSVFIANTTQSGMMGPFENTRSTKVVAASGEADV 521  
 DB 421 PLYSKNYGOAYEVKPEYDROLQDMDVSVFIANTTQSGMMGPFENTRSTKVVAASGEADV 480  
 QY 522 EMACPHLSGRHGRGGRKREHEEDVHYEQVKARLSKREALIVPVGVHPPVYVSSGNENIL 581  
 DB 481 EMACPHLSGRHGRGGRKREHEEDVHYEQVKARLSKREALIVPVGVHPPVYVSSGNENIL 540  
 QY 582 LFAAGIAQONNHEPFLAGRENNVLOQTEPQAMEIAFAPARKVEYBELFNSQDESIFPPGPR 641  
 DB 541 LFAAGIAQONNHEPFLAGRENNVLOQTEPQAMEIAFAPARKVEYBELFNSQDESIFPPGPR 600  
 QY 642 QHQOQSSRSTKQOQPLVSIIDFVG 666

DB 601 QHQOQSSRSTKQOQPLVSIIDFVG 625  
 RESULT 6  
 US-10-147-095-5  
 ; Sequence 5, Application US/10147095  
 ; Publication No. US20030171274A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Manners, John M.  
 ; APPLICANT: Marcus, John Paul  
 ; APPLICANT: Goulter, Kenneth C.  
 ; APPLICANT: Green, Jodie L.  
 ; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
 ; FILE REFERENCE: CUIJN23.001APC  
 ; CURRENT APPLICATION NUMBER: US/10/147,095  
 ; PRIOR FILING DATE: 2002-05-15  
 ; PRIOR APPLICATION NUMBER: US/09/331,631A  
 ; PRIOR FILING DATE: 1999-06-21  
 ; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
 ; PRIOR FILING DATE: 1997-12-22  
 ; PRIOR APPLICATION NUMBER: AU PO 4275  
 ; NUMBER OF SEQ ID NOS: 40  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 5  
 ; LENGTH: 625  
 ; TYPE: PRT  
 ; ORGANISM: Macadamia integrifolia  
 ; FEATURE:  
 ; NAME/KEY: PEPTIDE  
 ; LOCATION: (1)...(625)  
 ; OTHER INFORMATION: Partial mature peptide  
 US-10-147-095-5  
 Query Match 91.0%; Score 3215; DB 14; Length 625;  
 Best Local Similarity 96.6%; Pred. No. 9.2e-241;  
 Matches 604; Conservative 7; Mismatches 14; Indels 0; Gaps 0;  
 QY 42 QCMQLETSQGMRCVSCQDKRFEEDIDMSKYNDPQDPCQCCQRCRRQSGSPRQOY 101  
 DB 1 QCMQLETSQGMRCVSCQDKRFEEDIDMSKYNDPQDPCQCCQRCRRQSGSPRQOY 60  
 QY 102 CORCKEICEEBEENRQRPQOQYECOCORCHETPRMOTCOQRCERYEKEKQ 161  
 DB 61 CORCKEICEEBEENRQRPQOQYECOCORCHETPRMOTCOQRCERYEKEKQ 120  
 QY 162 QKRYEEOQREDEKEYEEMKEEDNKRDPQOREYEDCRRCCEQOEPRQOYQOCORCREQOR 221  
 DB 121 QKRYEEOQREDEKEYEEMKEEDNKRDPQOREYEDCRRCCEQOEPRQOYQOCORCREQOR 180  
 QY 222 QHGRGDDLINPQGGSGRYEGBEKGSDNPPYFDEBSLSTRFTEEGHISVLENFYGRSK 281  
 DB 181 QHGRGDDLINPQGGSGRYEGBEKGSDNPPYFDEBSLSTRFTEEGHISVLENFYGRSK 240  
 QY 282 LIRALKNYRLVLEANPNAFVLPTHLDADAILVTGGRGALKMIHRDNRESYNIIECGDVI 341  
 DB 241 LIRALKNYRLVLEANPNAFVLPTHLDADAILVTGGRGALKMIHRDNRESYNIIECGDVI 300  
 QY 342 RIPAGTTFYLINRDNNEERLHIAKFLQTIISTPGQYKEFPFAGGONPEPYLSTFSKEILEAA 401  
 DB 301 RIPAGTTFYLINRDNNEERLHIAKFLQTIISTPGQYKEFPFAGGONPEPYLSTFSKEILEAA 360  
 QY 402 LNTQAERLRGVLGOOREGVIISASQEOIRLELTRDSDSRWHIRRGESSGRYNIPNKR 461  
 DB 361 LNTQAERLRGVLGOOREGVIISASQEOIRLELTRDSDSRWHIRRGESSGRYNIPNKR 420  
 QY 462 PLYSKNYGOAYEVKPEYDROLQDMDVSVFIANTTQSGMMGPFENTRSTKVVAASGEADV 521  
 DB 421 PLYSKNYGOAYEVKPEYDROLQDMDVSVFIANTTQSGMMGPFENTRSTKVVAASGEADV 480  
 QY 522 EMACPHLSGRHGRGGRKREHEEDVHYEQVKARLSKREALIVPVGVHPPVYVSSGNENIL 581

Db 481 EMACHLSGRHGRGGGKREHEEHEVHYQVAPRLSKREAIIVVLAGHPVVFVSSGNENLL 540  
Qy 552 LFAFGINAGNNHENFLAGERNVLQOIEPOMELAPAPRKEVEBLFNSODESIFPPGPR 641  
Db 541 LEAFGINAGNNHENFLAGERNVLQOIEPOMELAPAPRKEVEBLFNSODESIFPPGPR 600  
Qy 642 OHOOOSSRSTKQOQPLVSTLDFVGF 666  
Db 601 OHOOOSSRSTKQOQPLVSTLDFVGF 625

RESULT 7  
US-09-331-631a-8

Sequence 8, Application US/0931631A  
Patent No. US20020168392A1  
GENERAL INFORMATION:  
APPLICANT: Manners, John M.  
APPLICANT: Marcus, John Paul  
APPLICANT: Goulter, Kenneth C.  
APPLICANT: Green, Jodie L.  
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
FILE REFERENCE: CULIN23.001APC  
CURRENT APPLICATION NUMBER: US/09/331,631A  
CURRENT FILING DATE: 1999-06-21  
PRIOR APPLICATION NUMBER: PCT/AU97/00874  
PRIOR FILING DATE: 1997-12-22  
PRIOR APPLICATION NUMBER: AU PO 4275  
PRIOR FILING DATE: 1996-12-20  
NUMBER OF SEQ ID NOS: 40  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 8  
LENGTH: 590  
TYPE: PRT  
ORGANISM: Gossypium hirsutum (cotton)  
US-09-331-631a-8

Query Match 31.3%; Score 1105.5; DB 9; Length 590;  
Best Local Similarity 38.4%; Pred. No. 4.7e-77;  
Matches 233; Conservative 113; Mismatches 174; Indels 87; Gaps 14;

Qy 76 DDPQTDCCQCCORRCRQESGPRQOQYCCRCCKEICEEHEEVNRR--DPQOYEOCOERC 133  
Db 35 DDPKRYEDCRRRCMDTRGQKEQOCCESCKSYGKXQOQRHNPEDPQRKYEBCCQDC 94  
Qy 134 QHETEPHMQTCQRCERRYEKRRKQKRYEBQQRDEDEKYEERMKEDNKRDPQORE 193  
Db 95 R--QOEBRQOPOCQRCCLKRFEOEQO-----SQRQ 123  
Qy 194 YEDCRRRCQOE--PROQYOCQRCREOQROHGRGDDLINPORG-----GSGRYEBEE 245  
Db 124 FQECQOHQOQORPEKQOCVRECEKYO-----NPRGEREBEABEETEBEQO 175  
Qy 246 KQSDNPYYFDEBSLSTRFTEEGHISVLENFYGRSKLRLKKNYLVLEAPNPAFVLPT 305  
Db 176 EGSNHPFPHHRSFQSRFEEHGNFRVLQRFASRHPILRGINFRLSILEANPNTFVLPH 235  
Qy 306 HLDADAILLVGGRGALKMIRHNDRESYNLECGDVIRIPAGTFYILINDNNEHLIAKF 365  
Db 236 HCDAEKIVLVNIGRGTLLFTLHENKESYNIIPGVVVKVPAGSTVYLANQDNKEKLIIAVL 295  
Qy 366 LQITSPQYKEFPFAGGONPEPYLSTFSKELILEALNTQARLKGVLG-----QORE 418  
Db 236 HRPVNNPQGFEEFPFAGGQRPQSYLRAPSRLEILBPFTNRSQDLBELFGGRQSRROQOQ 355  
Qy 419 GYIISASQOIRBELTRDSESRMHIRRGESSRGPYULFNKRPLYSNKYGAYEVKPED 478  
Db 356 GNFRRASQOIRALISQEAISPR-----EKSGE--RFAFNLLSQTPRYSNONGFFECRPE 409  
Qy 479 YQLODMVSVFLANTQSGMMGPFNTRSTKYVVVVASGEADVACPHLSRHHGRRG 538  
Db 410 FQLOLDINVTVALQINQSGIFVPHYNSKATFVILITTEGNGYAEWVSPHLP-----RQGS 464  
Qy 539 KHEEBEDV-----HYEQVAKRLSKREAIIVPVGHPVVFVSSGNENLLPAP 585

Db 465 YEEEBEEDBEEOQEBEERRSGQYKIRSRSGDIFVVPANFVTVFVASQONLRMTGF 524  
Qy 586 G-----INAGNNHENFLAGERNVLQOIEPOMELAPAPRKEVEBLFNSODESIFPPGPR 640  
Db 525 GLYNQINPDHNRQIRFVAGKINH--RQWDSQAKELAFGVSSRLVDIEINSNQSEYFVS- 582  
Qy 641 RQHQQOS 647  
Db 583 RQRCRAS 589

RESULT 8  
US-10-147-095-8

Sequence 8, Application US/10147095  
Publication No. US20030171274A1  
GENERAL INFORMATION:  
APPLICANT: Manners, John M.  
APPLICANT: Marcus, John Paul  
APPLICANT: Goulter, Kenneth C.  
APPLICANT: Green, Jodie L.  
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
FILE REFERENCE: CULIN23.001APC  
CURRENT APPLICATION NUMBER: US/10/147,095  
CURRENT FILING DATE: 2002-05-15  
PRIOR APPLICATION NUMBER: US/09/331,631A  
PRIOR FILING DATE: 1999-06-21  
PRIOR APPLICATION NUMBER: PCT/AU97/00874  
PRIOR FILING DATE: 1997-12-22  
PRIOR APPLICATION NUMBER: AU PO 4275  
PRIOR FILING DATE: 1996-12-20  
NUMBER OF SEQ ID NOS: 40  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 8  
LENGTH: 590  
TYPE: PRT  
ORGANISM: Gossypium hirsutum (cotton)  
US-10-147-095-8

Query Match 31.3%; Score 1105.5; DB 14; Length 590;  
Best Local Similarity 38.4%; Pred. No. 4.7e-77;  
Matches 233; Conservative 113; Mismatches 174; Indels 87; Gaps 14;

Qy 76 DDPQTDCCQCCORRCRQESGPRQOQYCCRCCKEICEEHEEVNRR--DPQOYEOCOERC 133  
Db 35 DDPKRYEDCRRRCMDTRGQKEQOCCESCKSYGKXQOQRHNPEDPQRKYEBCCQDC 94  
Qy 134 QHETEPHMQTCQRCERRYEKRRKQKRYEBQQRDEDEKYEERMKEDNKRDPQORE 193  
Db 95 R--QOEBRQOPOCQRCCLKRFEOEQO-----SQRQ 123  
Qy 194 YEDCRRRCQOE--PROQYOCQRCREOQROHGRGDDLINPORG-----GSGRYEBEE 245  
Db 124 FQECQOHQOQORPEKQOCVRECEKYO-----NPRGEREBEABEETEBEQO 175  
Qy 246 KQSDNPYYFDEBSLSTRFTEEGHISVLENFYGRSKLRLKKNYLVLEAPNPAFVLPT 305  
Db 176 EGSNHPFPHHRSFQSRFEEHGNFRVLQRFASRHPILRGINFRLSILEANPNTFVLPH 235  
Qy 306 HLDADAILLVGGRGALKMIRHNDRESYNLECGDVIRIPAGTFYILINDNNEHLIAKF 365  
Db 236 HCDAEKIVLVNIGRGTLLFTLHENKESYNIIPGVVVKVPAGSTVYLANQDNKEKLIIAVL 295  
Qy 366 LQITSPQYKEFPFAGGONPEPYLSTFSKELILEALNTQARLKGVLG-----QORE 418  
Db 236 HRPVNNPQGFEEFPFAGGQRPQSYLRAPSRLEILBPFTNRSQDLBELFGGRQSRROQOQ 355  
Qy 419 GYIISASQOIRBELTRDSESRMHIRRGESSRGPYULFNKRPLYSNKYGAYEVKPED 478  
Db 356 GNFRRASQOIRALISQEAISPR-----EKSGE--RFAFNLLSQTPRYSNONGFFECRPE 409  
Qy 479 YQLODMVSVFLANTQSGMMGPFNTRSTKYVVVVASGEADVACPHLSRHHGRRG 538  
Db 410 FQLOLDINVTVALQINQSGIFVPHYNSKATFVILITTEGNGYAEWVSPHLP-----RQGS 464

[illegible]

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      10
      US-10-147--095-7
      / Sequence 7, Application US/10147095
      / Publication No. US20030171274A1
      / GENERAL INFORMATION:
      / APPLICANT: Manners, John M.
      / APPLICANT: Marcus, John Paul
      / APPLICANT: Goulter, Kenneth C.
      / APPLICANT: Green, Jodie L.
      / TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
      / FILE REFERENCE: COL1423.001APC
      / CURRENT APPLICATION NUMBER: US/10/147,095
      / CURRENT FILING DATE: 2002-05-15
      / PRIOR APPLICATION NUMBER: US/09/331.631A
      / PRIOR FILING DATE: 1999-06-21
      / PRIOR APPLICATION NUMBER: PCT/AU97/00874
      / PRIOR FILING DATE: 1997-12-22
      / PRIOR APPLICATION NUMBER: AU PO 4275
      / PRIOR FILING DATE: 1996-12-20
      / NUMBER OF SEQ ID NOS: 40
      / SOFTWARE: FastSeq for Windows Version 3.0
      / SEQ ID NO 7
      / LENGTH: 525
      / TYPE: PR1
      / ORGANISM: Theobroma cacao
      / US-10-147--095-7

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	Query Match	29.3%;	Score 1036;	DB 14;	Length 525;
	Best Local Similarity	41.4%;	Pred. Num. 9.9e-72;		
	Matches	213;	Conservative	91;	Mismatches 156;
				Indels	54;
				Gaps	11;
QY	109	ICGEEBENR--QRDPQQVECCERCCRHTEPRNHMQOQRRERYEKKRKQKRY	165		
Db	:	:	:	:	
QY	22	LCSGVASAYRKQYERDPRQVQCQRRCSEATTEREOQEORER-----EY	70		
Db	:	:	:	:	
QY	166	EBOQRDEKYEYRNKEEDNKDPOQREYEDCRRACEOE--PQOYOOCGRCEGOQH	223		
Db	:	:	:	:	
QY	71	KQOQROBEL-----OROYOOCCRCEQQCGREQQOQCRKCMEQYKQ	116		
Db	:	:	:	:	
QY	224	GGGDLINFORSGSYEGEGEKOSDNYPFDE-RSLSTRTEBGHIVLENYFSKTL	282		
Db	:	:	:	:	
QY	117	ER-GHEHYHNHKKRSEEBGCQRNNPYFPKRKSFOTPRREEGNFKILOFAENSPP	175		
Db	:	:	:	:	
QY	283	IPLKNYVLVLENPNAFYLPYLDDAILVTGKGALKMIRHDRESYNLCGDYIR	342		
Db	:	:	:	:	
QY	176	LKGINDYHLAFENPNPTFILPHHCDAEALVFTNGKITTFVTHNKBSTYNQRTVAS	235		
Db	:	:	:	:	
QY	343	IPAGTFFYLIRDNNRIHTAKFLQTSTEGQVKEPFRPGCONPEBYLTSFKETLEAL	402		
Db	:	:	:	:	
QY	236	VPASTIYYVSQDNEKCLTIYALVPNSGKTELFPAGNNKPESYGAFSYELETVF	295		
Db	:	:	:	:	
QY	403	NTQAERLRGLVGQOR-----EGVISAOEIQRELTRDSESRRMIRRGESSRP	454		
Db	:	:	:	:	
QY	296	NTOEKLEELIEBORQGKRQOGQGMFRRAKPEQIALISQATSR---HRGGE-RLA	349		
Db	:	:	:	:	
QY	455	YNLFNKPLTSNKGQAVEYKEPDYQLODMVSVPIANTIGSSMMGPENTRSTKVVV	514		
Db	:	:	:	:	
QY	350	INTLSGSPVYSNONGPFACBEDPSQOFNMVMVAASAFLKNGALFVHHYNSKAFFVFW	409		
Db	:	:	:	:	
QY	515	AGEAEVEMACPHLSGRHGGRGK--RHEEEDV-----HYEVTKARLSREALIVPV	566		
Db	:	:	:	:	
QY	410	TDOYGTAQACPHLSKROSQSOSGRRDRREGSEBEETPFGEFOVKAPLSPGDVAPA	469		
Db	:	:	:	:	
QY	567	GHEVVPVSSGSENLLLFAGIINAQNHNENLAGR	600		
Db	:	:	:	:	



Db 470 GHAVTFASXDOPLNAVAFGLAONNRIPLAGR 503

## RESULT 11

US-10-264-303-3

; Sequence 3, Application US/10264303

; Publication No. US20030124060A1

; GENERAL INFORMATION:

; APPLICANT: Roux, Kenneth

; APPLICANT: Sathé, Shridhar

; APPLICANT: Teuber, Suzanne

; TITLE OF INVENTION: Purified linear Epitopes from Cashew Nuts, Nucleic Acids Encoding

; FILE REFERENCE: 28396 and 30728

; CURRENT FILING DATE: 2002-10-03

; PRIOR APPLICATION NUMBER: 60/326,793

; PRIOR FILING DATE: 2001-10-03

; PRIOR APPLICATION NUMBER: 60/371,774

; NUMBER OF SEQ ID NOS: 15

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 3

; LENGTH: 540

; TYPE: PRT

; ORGANISM: Anacardium occidentale

US-10-264-303-3

Query Match 29.1%; Score 1027.5; DB 14; Length 540;

Best Local Similarity 37.4%; Pred. No. 4.7e-71;

Matches 207; Conservative 118; Mismatches 173; Indels 55; Gaps 9;

Qy 104 RRCKEICEEBEYRNQRDPQOQYEOCCORQHETEPRHMTCCQRCRRYKCKRQOK 163

Db 35 KQCHQCCVQKQYD-----EQKQCVKCE-----KTYKCKGRER 71

Qy 164 RYEQOREDEKYEERMKEDNKRDPQOREYEDCRRCEQEPROQ-----YQCCRRRE 218

Db 72 EHE-----EEBEWGTGVDEPSTHBPAKHLISQCRQCEBGGQKQLCPRCCERYK 127

Qy 219 QORHGRGDLINPORGSGRYEERGE-EKOSDNPPYFERSLSTRFTEEGHISYLENFY 277

Db 128 ERGQH-----NKRDEDEDEDEDEAEBEDENPVFEDEDFTTKVTEQKVVLLPFT 180

Qy 278 GRSKTLRALKNYRLVLEAPNPAFVLPHTLDADAILVTGGRGALKMTHRDNRESYNLC 337

Db 181 QKSKLHLLEKRYRLAVLANPQAFVPSHMDADSIFFVSGRGITTKILENKRRESINRQ 240

Qy 338 GDVIRIPAGTTFYLLINRNNERLHIAKFLQITSTPGQYKEFFPAGGONPEBYLSTFSKEI 397

Db 241 GDVISISGTFPIANDDENKLYLVQFLRPVNLPGHFEVHGGEGENPESFYRAFWEI 300

Qy 398 LEAALNTQAERLRGVLGOOREGVIIISAOEIRLTRDSESRRWHIRGESSRGPYNL 457

Db 301 LEAALNTSKDLEKLFQKQDGTIMKASKEDIRASRGRGEPKIMPT---EESTGSFKL 357

Qy 458 FNKRPLVSNKYGQAYEVKPEYRLODMVSVFIANTIGSMMGPFENTRSTKVVVASG 517

Db 358 FKQPSGSKNGQGFPEARIDYPPLEKIDMVSVYANITKGMSVDFYNSRATKIAIVSG 417

Qy 518 EADVEMACPHLSGHRGGRGKRHEEBEDVHYEOKAALSKREALVVPVGHVPVVSNG 577

Db 418 EGCVEIACPHLS-----SKSHPSYKTLRARIKDYTFIVAGHPFATVAGN 466

Qy 578 ENLLFAFGINAONNHNFLAGREBNVLOQIEPQAMEIAPAPRKEVEELFNSODESIFP 637

Db 467 ENLEIVCEVNAEGNIRYTLAGK-KNIIKWKAKELAFKMGEBEVDKVFQKODEEFPF 525

Qy 638 PGRPHOQSSRS 650

Db 526 QGPEWRKEKEGRA 538

## RESULT 12

US-10-264-303-4

; Sequence 4, Application US/10264303

; Publication No. US20030124060A1

; GENERAL INFORMATION:

; APPLICANT: Roux, Kenneth

; APPLICANT: Sathé, Shridhar

; APPLICANT: Teuber, Suzanne

; TITLE OF INVENTION: Purified linear Epitopes from Cashew Nuts, Nucleic Acids Encoding

; FILE REFERENCE: 28396 and 30728

; CURRENT FILING DATE: 2002-10-03

; PRIOR APPLICATION NUMBER: 60/326,793

; PRIOR FILING DATE: 2001-10-03

; PRIOR APPLICATION NUMBER: 60/371,774

; PRIOR FILING DATE: 2002-04-11

; NUMBER OF SEQ ID NOS: 15

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 4

; LENGTH: 536

; TYPE: PRT

; ORGANISM: Anacardium occidentale

US-10-264-303-4

Query Match 29.1%; Score 1026.5; DB 14; Length 536;

Best Local Similarity 37.3%; Pred. No. 5.6e-71;

Matches 206; Conservative 119; Mismatches 173; Indels 55; Gaps 9;

Qy 104 RRCKEICEEBEYRNQRDPQOQYEOCCORQHETEPRHMTCCQRCRRYKCKRQOK 163

Db 31 KQCHQCCVQKQYD-----EQKQCVKCE-----KTYKCKGRER 67

Qy 164 RYEQOREDEKYEERMKEDNKRDPQOREYEDCRRCEQEPROQ-----YQCCRRRE 218

Db 68 EHE-----EEBEWGTGVDEPSTHBPAKHLISQCRQCEBGGQKQLCPRCCERYK 123

Qy 219 QORHGRGDLINPORGSGRYEERGE-EKOSDNPPYFERSLSTRFTEEGHISYLENFY 277

Db 124 ERGQH-----NKRDEDEDEDEDEAEBEDENPVFEDEDFTTKVTEQKVVLLPFT 176

Qy 278 GRSKTLRALKNYRLVLEAPNPAFVLPHTLDADAILVTGGRGALKMTHRDNRESYNLC 337

Db 177 QKSKLHLLEKRYRLAVLANPQAFVPSHMDADSIFFVSGRGITTKILENKRRESINRQ 236

Qy 338 GDVIRIPAGTTFYLLINRNNERLHIAKFLQITSTPGQYKEFFPAGGONPEBYLSTFSKEI 397

Db 237 GDVISISGTFPIANDDENKLYLVQFLRPVNLPGHFEVHGGEGENPESFYRAFWEI 296

Qy 398 LEAALNTQAERLRGVLGOOREGVIIISAOEIRLTRDSESRRWHIRGESSRGPYNL 457

Db 297 LEAALNTSKDLEKLFQKQDGTIMKASKEDIRASRGRGEPKIMPT---EESTGSFKL 353

Qy 458 FNKRPLVSNKYGQAYEVKPEYRLODMVSVFIANTIGSMMGPFENTRSTKVVVASG 517

Db 354 FKQPSGSKNGQGFPEARIDYPPLEKIDMVSVYANITKGMSVDFYNSRATKIAIVSG 413

Qy 518 EADVEMACPHLSGHRGGRGKRHEEBEDVHYEOKAALSKREALVVPVGHVPVVSNG 577

Db 414 EGCVEIACPHLS-----SKSHPSYKTLRARIKDYTFIVAGHPFATVAGN 462

Qy 578 ENLLFAFGINAONNHNFLAGREBNVLOQIEPQAMEIAPAPRKEVEELFNSODESIFP 637

Db 463 ENLEIVCEVNAEGNIRYTLAGK-KNIIKWKAKELAFKMGEBEVDKVFQKODEEFPF 521

Qy 638 PGRPHOQSSRS 650

Db 522 QGPEWRKEKEGRA 534

## RESULT 13

US-10-425-114-60246

; Sequence 60246, Application US/10425114

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PRIOR FILING DATE: 1996-12-20

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/
/ APPLICANT: Goulter, Kenneth C.
/ APPLICANT: Green, Jodie L.
/ TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
/ FILE REFERENCE: CULIN23_001APC
/ CURRENT APPLICATION NUMBER: US/09/331,631A
/ CURRENT FILING DATE: 1999-06-21
/ PRIOR APPLICATION NUMBER: PCT/US97/00874
/ PRIOR FILING DATE: 1997-12-22
/ PRIOR APPLICATION NUMBER: AU PO 4275
/ PRIOR FILING DATE: 1996-12-20
/

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OM protein - protein search, using sw model

Run on: February 15, 2005, 17:27:45 ; Search time 38.2338 Seconds  
(without alignments)  
1220.271 Million cell updates/sec

Title: US-09-331-631A-5

Perfect score: 3326  
Sequence: 1 QCMQLETSQGMRCVSCQDK.....SPRSTKQOQPLVILDFVGF 625

Scoring table:  
BLOSUM62DX  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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4: /cgn2\_6/ptodata/1/1aa/6B.COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/PCITUS.COMB.pep:\*  
6: /cgn2\_6/ptodata/1/1aa/backfilest1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

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1	1116	33.6	566	1	US-07-955-905A-2
2	1116	33.6	566	1	US-07-955-905A-22
3	1060	31.9	587	1	US-07-955-905A-23
4	864.5	26.0	626	4	US-09-106-872A-4
5	857.5	25.8	605	1	US-07-955-905A-24
6	833	25.0	571	1	US-07-955-905A-25
7	794	23.9	524	4	US-09-424-283-1
8	776.5	23.3	444	4	US-09-424-283-3
9	743	22.3	444	4	US-09-424-283-2
10	740	22.2	448	4	US-09-323-195A-18
11	712.5	21.4	410	1	US-07-955-905A-26
12	688.5	20.7	523	4	US-09-323-195A-17
13	677.5	20.4	409	4	US-09-424-283-4
14	552	16.6	421	1	US-07-955-905A-27
15	481.5	14.5	335	4	US-09-106-872A-17
16	216	6.5	1898	1	US-08-056-200-94
17	216	6.5	1898	2	US-08-800-644-94
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19	200	6.0	608	4	US-09-270-767-32937
20	200	6.0	608	4	US-09-270-767-48154
21	199.5	6.0	1162	2	US-08-728-323A-2
22	199.5	6.0	1162	3	US-09-298-568-2
23	199.5	6.0	1162	4	US-09-410-389-2
24	199.5	6.0	1162	4	US-09-894-273-2
25	199	6.0	611	4	US-09-216-393B-81
26	194.5	5.8	1564	4	US-10-144-198-2
27	194.5	5.8	1564	4	US-10-144-198-4

28	187	5.6	148	4	US-09-639-207-15	Sequence 15, Appl
29	175	5.3	1375	3	US-09-722-139-2	Sequence 2, Appl
30	175	5.3	1375	4	US-09-721-832-2	Sequence 2, Appl
31	175	5.3	1375	4	US-09-721-689-2	Sequence 2, Appl
32	174.5	5.2	1239	4	US-09-688-188B-13	Sequence 13, Appl
33	174.5	5.2	1239	4	US-09-291-417D-13	Sequence 13, Appl
34	174	5.2	584	4	US-09-949-016-6587	Sequence 8587, Ap
35	173.5	5.2	1233	4	US-09-645-466A-35	Sequence 35, Appl
36	173.5	5.2	1233	4	US-09-425-344A-35	Sequence 35, Appl
37	173.5	5.2	1233	4	US-09-645-791-35	Sequence 35, Appl
38	169.5	5.1	316	3	US-08-098-337E-31	Sequence 31, Appl
39	169.5	5.1	316	3	US-08-462-625-31	Sequence 31, Appl
40	169.5	5.1	585	4	US-09-949-016-6627	Sequence 6627, Ap
41	168	5.1	919	4	US-09-949-016-6954	Sequence 6954, Ap
42	165.5	5.0	1233	4	US-10-164-595-56	Sequence 89, Appl
43	165.5	5.0	1233	4	US-09-688-188B-89	Sequence 89, Appl
44	165.5	5.0	1233	4	US-09-291-417D-89	Sequence 89, Appl
45	162.5	4.9	735	4	US-10-164-595-80	Sequence 80, Appl

## ALIGNMENTS

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RESULT 1
US-07-955-905A-2
; Sequence 2, Application US/07955905A
; Patent No. 5770433
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND
; TITLE OF INVENTION: PRECURSOR
; NUMBER OF SEQUENCES: 28
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/955, 905A
; FILING DATE: 21-JAN-1993
; CLASSIFICATION: 435
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 566 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-07-955-905A-2

Query Match      33.6%; Score 1116; DB 1; Length 566;
Best Local Similarity 40.6%; Pred. No. 4.8e-93;
Matches 234; Conservative 107; Mismatches 178; Indels 58; Gaps 13;

QY ICEEEENR---ORDPOQYEQCCRCORETEPRHNOICQRCEREYKQKQRY 124
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QY 125 EEQREDEKYEERKEDGNRRDPOQYEDCRHCEQD--PRLOQCQRCQEQORH 182
DB 71 KEQQRQEEEL-----QROYQCQRCQRCQRCQRCQRCQRCQRCQRCQ 116
QY 183 GRGGLDMPQGGGSGRYEEGKQSDNRYTDE--RLSLTRPTTEGHSVLENFGRSKL 241
DB 117 ER-GEHENYHNNKRNSEESQGNNNYFPKRSFQTRRDEGKFKLIQRFANSP 175
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Db 124 QECQOCHQOEQERFERKQCVAECEERYQE-----NPKRRREBEABEETEEBQ 175

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[illegible]

Query Match	26.0%	Score 864.5	DB 4	Length 626
Best Local Similarity	34.4%	Pred. No. 4.9e-70		
Matches 210	Conservative 113	Mismatches 208	Indels 79	Gaps 18
QY	52	ESDPPOOY---CQRCKEICEEBEYNNRORPOOQYEOCQRCORRETEPR-----H	101	
DB	26	KSPFYOKTTEPNCAORCLQSCQEPDILKQK-----ACSRCTKLEYDRCVYDPGRGH	78	
QY	102	MOIQCRREKRYEKKRQKRYEQQQREDEKYEEMKED--NKDPQQRVEDCRH	159	
DB	79	TGTTNORPPG-EXTGRQPEDY-----DDRRQPRREBGRMGPRFRERE----	127	
QY	160	CEOEPRLOYOCQRCRCEQOQ-----ROHGRGDDLNNPQSGRAYEEGKSDNPPYDE	215	
DB	128	-DMQRPRDM---RRPSHQQRKIRPREGE-----QEWTPGSHVRETSRNNPFYPS	179	
QY	216	RLSTRPTEEGHISYLENFYGRSKLRLALKNYLYLLLEAPNPAVPLTHLDADAILVI	275	
DB	180	RRFSTRYONGRIRVLQRFQSRORFONLONHRIVOLEAPNPLVLRKADADADILVIQ	239	
QY	276	GGRGALKIHRNDNESYVLECGDVIIRIPAGTFFPLINDNNEIRLHIAFLTQISTPGYK	335	
DB	240	QGAQTVLVANGNHKSFFULDEGHRLRIPSGFTSYLNRHDQNLRVAKISMPVTPGQFE	299	
QY	336	EFFPAGGNPEPPIYSTSKELLEALNLTQTRLAGVL-----GQR-----	376	
DB	300	DFFPSSSDQSYLYQEFSRNTLEAFNAEFNEIRVLLEENAGQEERGRGRRASTRSE	359	
QY	377	--EGYIRASQOIRELTRDSESRPMHIRRGSESSRG---PYNLFNKRLPYNSKYGOA	430	
DB	360	NNEGIVAVKSEHNEBELTKHAKS-----VSKKSGSEBEDTNPINLRGEPDLSNPFKL	414	
QY	431	YEKVPEDYR-OLQMDVSVFIANTTQSGMGPFFNYTRSTKVVVYVVASGADVEMACPHLSG	489	
DB	415	FEVPRDKKNPOLQOLDMMMLTCVELKEGMLMPPHNSKAMVLYVNNKGGNELVAVRKEQ	474	
QY	490	RHGRGGGKRRE-EEEEVYEQVR---ARLSKREAVLVLAGHPVYVSSGENTLLPFG	545	
DB	475	QQRGRREEDDEDEBEGSNREVRARYRLAKRGDVFTIPRAHPVALNASSSELHLL--CFG	532	
QY	546	INAQNNHNFVLAGERNVLTQITFQOMELAPAAKRYEELFNODESIFPPGRQHQQ	605	
DB	533	INAEKNHRIPLAGQDNVIDIQIEKQADKLAPFGSGEYQVEKLIKQOKESHFVAPRQSOQ	592	







QY 601 QHQOQSPRS 609  
Db 479 PSEGRRA 487

## RESULT 9

US-09-424-283-2  
; Sequence 2, Application US/09424283  
; Patent No. 6437219  
; GENERAL INFORMATION:  
; APPLICANT: Grimes, et al.  
; TITLE OF INVENTION: Sucrose binding proteins  
; FILE REFERENCE: 4630-50206  
; CURRENT APPLICATION NUMBER: US/09/424,283  
; CURRENT FILING DATE: 1999-11-19  
; PRIOR APPLICATION NUMBER: PCT/US98/10465  
; PRIOR FILING DATE: 1998-05-21  
; PRIOR APPLICATION NUMBER: US 60/047,568  
; PRIOR FILING DATE: 1997-05-22  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 444  
; TYPE: PRT  
; ORGANISM: Glycine max  
US-09-424-283-2

Query Match 22.3%; Score 743; DB 4; Length 444;  
Best Local Similarity 35.1%; Pred. No. 3,6e-59;

Matches 173; Conservative 87; Mismatches 151; Indels 82; Gaps 15;

QY 64 RCKCEEEBENRRDPO--QYEQCQRCQRETEPRHMOICQORGEYKERRQO 121  
Db 27 KCKEVEEB-----DELVTCRQCCQCCQYTGDGR---VCLQSCD-RYHRKQERE 76  
QY 122 KRYEQQREDEKYEERMKEGDNKRDPOQREYEDCRHCEQOEPRLOYQCCRCQOOR 181  
Db 77 KQIQSETE-----KKEESRE-----EQOEQ 101  
QY 182 HGRGDLNPPORGSGRYEGBEGEKOSDNPYPDE-RSLSTRPTEEGHISYLENFGYGSK 240  
Db 102 H-----EODENPYIFEEDKDEPTEVETEGGRIRVLKKEFKESK 140  
QY 241 LIRALKRYVLVLEANNPNAFVLPHTLDADAILLVIGRGALKMIRDNRESYNLECGVY 300  
Db 141 LQGLENRPLATLEAPHTFVSPRHPDSVVFENIKGRAVLGLVSESETEKITLPEGDVT 200  
QY 301 RIPAGTFFYLIRDNNEERLHIA--KFLQITSTPGQYKEFPFAGGONPEPYLSTFSKEILE 358  
Db 201 HIPAGTPLYIVRDNENDKFLFAMLHI PVSVSTPKFEEFFAPGGRDPESVLSAFEMVNLQ 260  
QY 359 AALANTQTERLGRVLCQOREGVIIIRASQOIRLRTDSESRMHIRGGSERGPYNLFN 418  
Db 261 AALQTPKGLENVFPQONGSIFRISREQVRLA--PTKSSWMPF--GGE-SKPOFNIFS 316  
QY 419 KRLYSNKYGAYEYKPEDEYRQ--LQDMVSVFIANTOGSMGPFENRSTRKVVVAVSG 476  
Db 317 KRPTLSNGRGLTEVGPDDDEKSWLQRLMLLTFTTIIRSTTHSHAKIKALVIDG 376  
QY 477 EADVEMACPRLSGRHRGGRHEEBEVEHYEOVARLSKREAVLVLAGHPVAVSSGN 536  
Db 377 RHLQDISCHMS-----SRSSHKHDSRP-SYHRISSDLKPMGVFVPPRGHFVTLASNK 431  
QY 537 ENLLIFAGGINAQ 549  
Db 432 ENLLMICEFVNAR 444

RESULT 10  
US-09-323-195A-18  
; Sequence 18, Application US/09323195A  
; Patent No. 6462257  
; GENERAL INFORMATION:

APPLICANT: Pullman, Gerald  
; APPLICANT: Cairney, John  
; APPLICANT: Pereira, Ranjan  
; TITLE OF INVENTION: VITILIN-LIKE SEED STORAGE PROTEIN GENE PROMOTER AND  
; FILE REFERENCE: 1PST0009  
; CURRENT APPLICATION NUMBER: US/09/323,195A  
; CURRENT FILING DATE: 1999-06-01  
; NUMBER OF SEQ ID NOS: 19  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 18  
; LENGTH: 448  
; TYPE: PRT  
; ORGANISM: Picea glauca  
US-09-323-195A-18

Query Match 22.2%; Score 740; DB 4; Length 448;  
Best Local Similarity 37.1%; Pred. No. 6,6e-59;

Matches 159; Conservative 89; Mismatches 157; Indels 24; Gaps 9;

QY 191 PORGSGRYEBEGEKOSDNPYPDESLSTRPTEEGHISYLENFGRSKLLRALKRYRL 250  
Db 34 PEYLGRGRGR--EEREENPFVHSDSFTRASSEAGEIRALPNFGVSELLEGIRKFRV 92  
QY 251 VLEANNPNAFVLPHTLDADAILLVIGRGALKMIRDNRESYNLECGDVIRIPAGTFFYL 310  
Db 93 TCIEKKNCTWLPHTYIDATWTLVYTRRGYIAYVHQBELVKRLKEBGDVFGVSGHTFFYL 152  
QY 311 INRDNNEERLHIAKFLQITST-PGQYKEFPFAGGONPEPYLSTFSKEITLBAALNTQTERLR 369  
Db 153 VNDDHNTLRISLIVRPVSTVRGEYQPFYVAGGNNPOTVVSAPFDDVLEAFAFNNOOLE 212  
QY 370 GVLDGQOREGVIIIRASQOIRLRTDSESRMHIRRG--GESR-----GPYNLFNRP 422  
Db 213 RIFGHSRGVLIHNEEDIREMR-----KRGFSAGSMAPRHPKPNLRNQPD 262  
QY 423 YSNKYGAYEYKPEDEYRQDQMDVSVFIANTOGSMGPFENRSTRKVVAVSGEADVEY 482  
Db 263 FENENGRPTIGPNKYPLDALDVSGVLADLPQSMAPSLNSKSTSIGIVTNGEGRIEM 322  
QY 483 ACPHLSGRHGRGGGKRHEEBEVEHYEOVARLSKREAVLVLAGHPVAVSSGNELLF 542  
Db 323 ACPHL-GQHG--WSSPRRGQDITTYORVMAKLTGTSVYIYPAPHPITELASTSRQL 379  
QY 543 AFGINAQNNHENFLAGRENNVLCQIEPQAMELAPASR--KEVEELFNSODESIFPPGPRQ 601  
Db 380 WFDLNTRENEROFLAGK--NNVLNLTLEIRIOLSTRVPRGEIEEYVLAQKQVILRGFOR 438  
QY 602 HQOQSPRS 610  
Db 439 RSRDEARS 447

RESULT 11  
US-07-955-905A-26  
; Sequence 26, Application US/07955905A  
; Patent No. 5770433  
; GENERAL INFORMATION:

APPLICANT:  
; TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND  
; NUMBER OF SEQUENCES: 28  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA:  
; FILING DATE: 21-JAN-1993  
; CLASSIFICATION: 435  
; INFORMATION FOR SEQ ID NO: 26:  
; SEQUENCE CHARACTERISTICS:

Query Match		20.7%	Score 688.5	DB 4	Length 523
Similarity		35.2%	Pred. No.	4,3e-54	
Best Local			Mismatches	165	Indels 35
Matches		154	Conservative		Gaps 10
QY	182 HGRGDLNPNRPGSGRYEEGEKSDNPYYFERDLSLTFRTFTEGHISVLNFPGYSKL	241			
	::               ::               ::               ::               :				
b	40 HGRG-----HGRREEEENPYPVHSDFRFRMSSDDGERTALPNFEASEL	86			
	::               ::               ::               ::               :				

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QY 138 RMKGEDNRDD-----QOREYED-----CRHHEQGEPRRQYQORRCSCGQORH 182
Db 27 KUKETEVEDEBELVTCHKQCCQORRYTESDKRTCLCQDCDSMKQERKEQVEESTREKEEBH 86
QY 183 GRGGDLNMPORGSGRYEGEGEKOSDNYPFDE--RSLSTRPRTEGHSVLENFYGRSKL 241
Db 87 -----QGEHEBEDENNYVEEDBDSTRVETEGGSRLVKKPFKSKL 130

242 LRALKNYRVLLEANPNAFVLPTHLADAILVITGGALCKMIHRDNRESYNLECGDYIR 301
QY 131 LOGIENFRALTELRARHAFVSPRRHDSSEVLFNFKGRVILVLVRESSETEKITLBEFGDMIH 190
Db 302 IPAGTEFLIRINDNRRERLHIKPLQTSIPGOYKEFPFAGQONPEPYSTFSKELTEAL 361
QY 191 IPAGPLPLTVNRDEDEKLLMLMHI PVSIPGFEFFEPGGSDPESVLSAFSNNVLOAL 250
QY 362 NTQTERLGVIGQOREGVILRASQEQIRLTPRDSSESRMHIRRGSESSRGBYVFNFKRP 421

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Db      251 QTPKCKLRLFRQNGEGSIFKISREVRALA-PTKSSWPF--GGE-SKAQNI FSKRP
Qy      422 LYSNKYGAAYEVKPEDYRQ-LQDMVSVFIANTOGSMGPFENTRSTKVYVVASGADV
Db      307 TFSNGYGRLTGEVGPDEKSMQLRLMLFTNITQSRMSITHVNSHTKIALVWDGNGHL
Qy      481 EMACPHLSGRHGGCGGRHHEEVEVHYEQVARLSKREALVTLAGHP
Db      367 QISCPHMSRSDSK-----HDKSSPSYHRLSADLKQGVVFPVPGHP 408

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RESULT 14
US-07-955-905A-27
; Sequence 27, Application US/07955905A
; Patent No. 5770433
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND
; TITLE OF INVENTION: PRECURSOR
; NUMBER OF SEQUENCES: 28
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/955,905A
; FILING DATE: 21-JAN-1993
; CLASSIFICATION: 435
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 421 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Phaseolus vulgaris
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..421
; OTHER INFORMATION: /note= "Vicilin from P. vulgaris"
US-07-955-905A-27

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Query Match      16.6%; Score 552; DB 1; Length 421;
Best Local Similarity 33.6%; Pred. No. 8.8e-42;
Matches 143; Conservative 71; Mismatches 156; Indels 56; Gaps 12;

Qy      203 EEKOSDNPYYPD-ERSLSTRPTEEGHISVLENFYGRSKLRLAKNKYVLLLEANPAFV
Db      30 EEESQDNPFYFNSDMSWNTLFFKQYGHIRVLORFQOQSRLOQNTEDYLVFERSKPEITL
Qy      262 LPTHLDADAILLVIGRGALKMIHRDNRESY-----NLECGDVIRIPAGTTFYILNRDN
Db      90 LPOQADAEILLVVRSGSAILVLVKPDDREYFFLSDNPISDQKIQAGITFLVNDP 149
Qy      316 NERLIHAKLQITISPGYKKEFFPAGCGNPPEYISTEKEILAEALNTQTRLRGVIGQ-
Db      150 KEDLLIQLAMPVNP-QIHEFFLSSTAQOQSYLOEFSKILTEASFNSKEEIRRVIFEE
Qy      375 --QREGVIRASQEQIRELTRDSESRMHIRRGESGRGPYNLFNKRPVLSNKGAYE
Db      209 EQQEGVIVINIDSEQIKELSKHAKSSR-----KSLSKQDNTGNEFGNLT 255
Qy      433 VKPEYRLOQMDVSVFIANT--TQSGMGPFFNTRSTKVYVVASGADVEMACPHLSGR
Db      256 -----RTNSLNLVLISLIEGEGALFVPHYYSKAIIVLVNVEGAHVELVGPK----
Qy      491 HGRGGGGRHHEEVEVHYEQVARLSKREALVTLAGHPVVSNGENMLLFAQTAAQN
Db      304 -----GNK-----ETLEVESYRAELSKDQDVFIIPAIVPAIKATSNVNT--GFGINANN
Qy      551 NHENFLAGRENVLOQT-----EPQAMELAFASGRKEVELENSQDESIFFPGPGRHQOQ

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Db      352 NNRNLAKGTIDVIVISIGALDQKDVLTGTTSGSGDEVMKLINQSGS-YFVDAHHQOE
Qy      606 SRSRK 611
Db      411 QQKGRK 416

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RESULT 15
US-09-106-872A-17
; Sequence 17, Application US/09106872A
; Patent No. 646311
; GENERAL INFORMATION:
; APPLICANT: Burks Jr., A. Wesley
; APPLICANT: Stanley, J. Steven
; APPLICANT: Cockrell, Gael
; APPLICANT: King, Nina E.
; APPLICANT: Sampson, Hugh A.
; APPLICANT: Helm, Ricki M.
; APPLICANT: Bannion, Gary A.
; TITLE OF INVENTION: Peanut Allergens and Methods
; FILE REFERENCE: HS 103 CIP
; CURRENT APPLICATION NUMBER: US/09/106,872A
; PRIOR FILING DATE: 1999-06-29
; PRIOR APPLICATION NUMBER: PCT/US96/15222
; PRIOR FILING DATE: 1996-09-23
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 17
; LENGTH: 335
; TYPE: PRT
; ORGANISM: Arachis hypogaea
US-09-106-872A-17

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Query Match      14.5%; Score 481.5; DB 4; Length 335;
Best Local Similarity 36.8%; Pred. No. 1.7e-35;
Matches 117; Conservative 55; Mismatches 107; Indels 39; Gaps 9;

Qy      328 ISTPGYKKEPPYAGGNPEPYLSTFSKEILAEALNTQTRLRGVL-----GQQ 375
Db      3 VNTPGQFEDFPFAPSSDQSSYLOGFSRNTLEAFNAFNEIRVLLLEENAGSGQBERGQR
Qy      376 R-----EGYIRASQEQIRELTRDSESRMHIRRGESSRG-----PYNLPRKRL 422
Db      63 RMTSRSENNEGYIVVSKHAEVETKAKS-----VSKGSEBEDITNPINLRGEPD 117
Qy      423 YSNKYGAAYEVKPEDYR-QLODMVSVFIANTOGSMGPFENTRSTKVYVVASGADV
Db      118 LSNMFGLEFVKDKKNPOLQDLDMLTCVEIKEGALMLPHNSKAMVIVVNNKGTGNLE
Qy      482 MACPHLSGRHGGCGGGRHHEEVEVHYEQV---ARLSKREALVTLAGHPVVSNGNE
Db      178 LVAVRKEQOQGRREEDDEDEESNREVRVYARLKEGQVFTMPAHVPAIVASSSL 237
Qy      538 NULLFAGINAONNHENFLAGRENVLOQIEPQAMELAFASGRKEVELENSQDESIFP
Db      238 HLL--GFGINAENNRHIFLAGDKDQVLDQIEKQADLAFPGSGEVEKLIKQKESHVVS
Qy      598 GPRHQOQSPRSTKQOQ 615
Db      296 A--QSOSSPSSPEKESP 311

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Search completed: February 15, 2005, 18:03:03  
Job time : 40.2338 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 15, 2005, 17:34:20 ; Search time 103.91 Seconds  
(without alignments)  
1965.343 Million cell updates/sec

Title: US-09-331-631A-5

Sequence: 1 QCMQLETSQGMRRVCVSCDK.....SPRSTKQQQPLVSLIDFVGF 625

Scoring table: BLOSUM62DX  
Gapop 10.0 , Gapext 0.5

Searched: 1376875 seqs, 326749119 residues

Total number of hits satisfying chosen parameters: 1376875

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/1/pubpaa/US10D\_PUBCOMB.pep.\*
- 17: /cgn2\_6/ptodata/1/pubpaa/US10D\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/1/pubpaa/US11\_NEW\_PUB.pep.\*
- 19: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 20: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3326	100.0	625	9	US-09-331-631A-5
2	3326	100.0	625	14	US-10-147-095-5
3	3227	97.0	666	9	US-09-331-631A-1
4	3227	97.0	666	14	US-10-147-095-1
5	3215	96.7	666	9	US-09-331-631A-3
6	3215	96.7	666	14	US-10-147-095-3
7	1092.5	32.8	590	9	US-09-331-631A-8
8	1092.5	32.8	590	14	US-10-147-095-8
9	1015	30.5	525	9	US-09-331-631A-7
10	1015	30.5	525	14	US-10-147-095-7
11	1015	30.5	540	14	US-10-264-303-3
12	1014	30.5	536	14	US-10-264-303-4
13	894	26.9	582	15	US-10-425-114-60246

14	894	26.9	584	15	US-10-425-114-39532	Sequence 39532, A
15	888	26.7	582	9	US-09-331-631A-22	Sequence 22, Appl
16	888	26.7	582	14	US-10-147-095-22	Sequence 22, Appl
17	868.5	26.1	605	15	US-10-100-303A-110	Sequence 110, App
18	864.5	26.0	637	9	US-09-331-631A-24	Sequence 24, Appl
19	864.5	26.0	637	14	US-10-147-095-24	Sequence 24, Appl
20	863.5	26.0	626	10	US-09-847-208-28	Sequence 28, Appl
21	863.5	26.0	626	14	US-10-228-806-2	Sequence 2, Appl
22	863.5	26.0	626	15	US-10-100-303A-7	Sequence 7, Appl
23	863.5	26.0	626	15	US-10-245-871-10	Sequence 10, Appl
24	863.5	26.0	626	15	US-10-253-286-10	Sequence 10, Appl
25	861	25.9	614	9	US-09-331-631A-21	Sequence 21, Appl
26	861	25.9	614	10	US-09-847-208-27	Sequence 27, Appl
27	861	25.9	614	14	US-10-147-095-21	Sequence 21, Appl
28	861	25.9	614	15	US-10-100-303A-8	Sequence 8, Appl
29	859.5	25.8	605	9	US-09-331-631A-25	Sequence 25, Appl
30	859.5	25.8	605	14	US-10-147-095-25	Sequence 25, Appl
31	858.5	25.8	605	15	US-10-424-599-153195	Sequence 153195, A
32	854	25.7	623	15	US-10-424-599-153206	Sequence 153206, A
33	839	25.2	634	9	US-09-731-221-78	Sequence 78, Appl
34	821	24.7	584	15	US-10-424-599-260105	Sequence 260105, A
35	794	23.9	518	15	US-10-424-599-153615	Sequence 153615, A
36	794	23.9	524	14	US-10-155-805-1	Sequence 1, Appl
37	782	23.5	447	15	US-10-425-114-58676	Sequence 58676, A
38	779.5	23.4	489	15	US-10-424-599-153614	Sequence 153614, A
39	776.5	23.3	489	14	US-10-155-805-3	Sequence 3, Appl
40	756.5	22.7	425	15	US-10-245-227B-12	Sequence 12, Appl
41	752	22.6	417	15	US-10-245-227B-14	Sequence 14, Appl
42	749	22.3	439	15	US-10-245-227B-1	Sequence 1, Appl
43	743	22.3	444	14	US-10-155-805-2	Sequence 2, Appl
44	737	22.2	576	16	US-10-437-963-146150	Sequence 146150, A
45	733	22.0	390	15	US-10-245-227B-2	Sequence 2, Appl

## ALIGNMENTS

RESULT 1  
US-09-331-631A-5  
; Sequence 5, Application US/09331631A  
; Patent No. US20020168392A1  
GENERAL INFORMATION:  
; APPLICANT: Manners, John M.  
; APPLICANT: Marcus, John Paul  
; APPLICANT: Goulter, Kenneth C.  
; APPLICANT: Green, Jodie L.  
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
; FILE REFERENCE: CULN23.001APC  
; CURRENT APPLICATION NUMBER: US/09/331,631A  
; CURRENT FILING DATE: 1999-06-21  
; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
; PRIOR FILING DATE: 1997-12-22  
; PRIOR APPLICATION NUMBER: AU PO 4275  
; PRIOR FILING DATE: 1996-12-20  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 5  
; LENGTH: 625  
; TYPE: PRT  
; ORGANISM: Macadamia integrifolia  
; FEATURE:  
; NAME/KEY: PEPTIDE  
; LOCATION: (1)...(625)  
; OTHER INFORMATION: Partial mature peptide  
US-09-331-631A-5

APPL

Query Match 100.0%; Score 3326; DB 9; Length 625;  
Best Local Similarity 100.0%; Pred. No. 1.1e-255;  
Matches 625; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 QCMQLETSQGMRRVCVSCDKFEEDIDWSKXDNQEDPTECCQCCRRRCROGSDSPRQOY 60  
Db 1 QCMQLETSQGMRRVCVSCDKFEEDIDWSKXDNQEDPTECCQCCRRRCROGSDSPRQOY 60

```

QY 61 CORCKEICEEEYNNRQDPQOQYECQKRCRRTEPRHMOICQRCERYEKERKQ 120
Db 61 CORCKEICEEEYNNRQDPQOQYECQKRCRRTEPRHMOICQRCERYEKERKQ 120
QY 121 QKRYEQQRDEDEKYEERKMGKNDPQOREYEDCRHCEQOEPRLOYOCORRCOEQR 180
Db 121 QKRYEQQRDEDEKYEERKMGKNDPQOREYEDCRHCEQOEPRLOYOCORRCOEQR 180
QY 181 QHGRGDLMPORGSGGYEEGEEKSDNPYFEDRSISTRTREBHSIVLENFYGRSK 240
Db 181 QHGRGDLMPORGSGGYEEGEEKSDNPYFEDRSISTRTREBHSIVLENFYGRSK 240
QY 241 LRLALKNYRLVLEAPNPAFVLPTHLDADAILLVIGRGALKMIHRDNRESYNLECGDVI 300
Db 241 LRLALKNYRLVLEAPNPAFVLPTHLDADAILLVIGRGALKMIHRDNRESYNLECGDVI 300
QY 301 RLPAGTTFYLLINRDNNERLHIAKFLQITSTPGQYKEFFPAGGONPEPYLSTFSKEILEAA 360
Db 301 RLPAGTTFYLLINRDNNERLHIAKFLQITSTPGQYKEFFPAGGONPEPYLSTFSKEILEAA 360
QY 361 LNTOTERLRGVLGQOREGVIIIRASOEQIRELTRDDESRRWHIRRGESSRGPNYLFNKR 420
Db 361 LNTOTERLRGVLGQOREGVIIIRASOEQIRELTRDDESRRWHIRRGESSRGPNYLFNKR 420
QY 421 PLYSNKYGQAYEVKEDYRQLQDMDSVFANITQSGMMGPFNTSTKYVVAASGEADV 480
Db 421 PLYSNKYGQAYEVKEDYRQLQDMDSVFANITQSGMMGPFNTSTKYVVAASGEADV 480
QY 481 EMACPHLSGHRGGGGRHSEEEVHYEVRARLSKREAIIVLAGHPVVFVSSGNNLL 540
Db 481 EMACPHLSGHRGGGGRHSEEEVHYEVRARLSKREAIIVLAGHPVVFVSSGNNLL 540
QY 541 LFAFGINAQNNHNFFLAGREBNVLOQIEPQAMELAPASRKEVEELFNSODESIFPPGPR 600
Db 541 LFAFGINAQNNHNFFLAGREBNVLOQIEPQAMELAPASRKEVEELFNSODESIFPPGPR 600
QY 601 QHQOQSPRSTKQOQPLVSIIDFVG 625
Db 601 QHQOQSPRSTKQOQPLVSIIDFVG 625

RESULT 2
US-10-147-095-5
; Sequence 5, Application US/10147095
; Publication No. US2003017274A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie L.
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; FILE REFERENCE: CULIN23.001APC
; CURRENT APPLICATION NUMBER: US/10/147,095
; PRIOR FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: US/09/331,631A
; PRIOR FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: PCT/AU97/00874
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: AU PO 4275
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 5
; LENGTH: 625
; TYPE: PRT
; ORGANISM: Macadamia integrifolia
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)...(625)
; OTHER INFORMATION: Partial mature peptide
US-10-147-095-5

```

Query Match 100.0%; Score 3326; DB 14; Length 625;  
 Best Local Similarity 100.0%; Pred. No. 1,1e-255;  
 Matches 625; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 QCMQLTSSQMRKCVSQCKRREEDIDMSKYDNOEDPQTECQOCORRCQOESDPQOQY 60
Db 1 QCMQLTSSQMRKCVSQCKRREEDIDMSKYDNOEDPQTECQOCORRCQOESDPQOQY 60
QY 61 CORCKEICEEEYNNRQDPQOQYECQKRCRRTEPRHMOICQRCERYEKERKQ 120
Db 61 CORCKEICEEEYNNRQDPQOQYECQKRCRRTEPRHMOICQRCERYEKERKQ 120
QY 121 QKRYEQQRDEDEKYEERKMGKNDPQOREYEDCRHCEQOEPRLOYOCORRCOEQR 180
Db 121 QKRYEQQRDEDEKYEERKMGKNDPQOREYEDCRHCEQOEPRLOYOCORRCOEQR 180
QY 181 QHGRGDLMPORGSGGYEEGEEKSDNPYFEDRSISTRTREBHSIVLENFYGRSK 240
Db 181 QHGRGDLMPORGSGGYEEGEEKSDNPYFEDRSISTRTREBHSIVLENFYGRSK 240
QY 241 LRLALKNYRLVLEAPNPAFVLPTHLDADAILLVIGRGALKMIHRDNRESYNLECGDVI 300
Db 241 LRLALKNYRLVLEAPNPAFVLPTHLDADAILLVIGRGALKMIHRDNRESYNLECGDVI 300
QY 301 RLPAGTTFYLLINRDNNERLHIAKFLQITSTPGQYKEFFPAGGONPEPYLSTFSKEILEAA 360
Db 301 RLPAGTTFYLLINRDNNERLHIAKFLQITSTPGQYKEFFPAGGONPEPYLSTFSKEILEAA 360
QY 361 LNTOTERLRGVLGQOREGVIIIRASOEQIRELTRDDESRRWHIRRGESSRGPNYLFNKR 420
Db 361 LNTOTERLRGVLGQOREGVIIIRASOEQIRELTRDDESRRWHIRRGESSRGPNYLFNKR 420
QY 421 PLYSNKYGQAYEVKEDYRQLQDMDSVFANITQSGMMGPFNTSTKYVVAASGEADV 480
Db 421 PLYSNKYGQAYEVKEDYRQLQDMDSVFANITQSGMMGPFNTSTKYVVAASGEADV 480
QY 481 EMACPHLSGHRGGGGRHSEEEVHYEVRARLSKREAIIVLAGHPVVFVSSGNNLL 540
Db 481 EMACPHLSGHRGGGGRHSEEEVHYEVRARLSKREAIIVLAGHPVVFVSSGNNLL 540
QY 541 LFAFGINAQNNHNFFLAGREBNVLOQIEPQAMELAPASRKEVEELFNSODESIFPPGPR 600
Db 541 LFAFGINAQNNHNFFLAGREBNVLOQIEPQAMELAPASRKEVEELFNSODESIFPPGPR 600
QY 601 QHQOQSPRSTKQOQPLVSIIDFVG 625
Db 601 QHQOQSPRSTKQOQPLVSIIDFVG 625

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```

RESULT 3
US-09-331-631A-1
; Sequence 1, Application US/09331631A
; Patent No. US20020168392A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie L.
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; FILE REFERENCE: CULIN23.001APC
; CURRENT APPLICATION NUMBER: US/09/331,631A
; PRIOR FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: PCT/AU97/00874
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: AU PO 4275
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 666
; TYPE: PRT
; ORGANISM: Macadamia integrifolia
US-09-331-631A-1

```

Query Match 97.0%; Score 3227; DB 9; Length 666;  
Best Local Similarity 96.6%; Pred. No. 9.3e-248;  
Matches 604; Conservative 9; Mismatches 12; Indels 0; Gaps 0;

QY 1 QCMOLETSGMRRVCSCDCKRFEEDIDMSKYDNQEDPTECOQCORRQOESDPDQOY 60  
DB 42 QCMOLETSGMRRVCSCDCKRFEEDIDMSKYDNQEDPTECOQCORRQOESDPDQOY 101  
QY 61 CORCKEICEEBEENRQDPQOQYEQCKCORRETPRHMOICQRCERREKEXKQ 120  
DB 102 CORCKEICEEBEENRQDPQOQYEQCKCORRETPRHMOICQRCERREKEXKQ 161  
QY 121 QKRYEQOREDEBEKYEERMEKGNKRDPOQREYEDCRRRCQOEPRQOHCQRCREQR 221  
DB 162 QKRYEQOREDEBEKYEERMEKGNKRDPOQREYEDCRRRCQOEPRQOHCQRCREQR 221  
QY 181 QHGGGDLMPORGGSGRYEBEGEKQSDNPYFDEBSLSTRFTEBEGHISYLENFYGRSK 240  
DB 222 QHGGGDLMPORGGSGRYEBEGEKQSDNPYFDEBSLSTRFTEBEGHISYLENFYGRSK 281  
QY 241 LRLALKNYRLVLEANPAFVLPHTLDADAILVIGRGALKMIHRNRESYNLECGDVI 300  
DB 282 LRLALKNYRLVLEANPAFVLPHTLDADAILVIGRGALKMIHRNRESYNLECGDVI 341  
QY 301 RIPAGTTFYLLINRDNNERLHIAKFLQITISTPGQYKEFPFAGQONPEPYLSTFSKEILEAA 360  
DB 342 RIPAGTTFYLLINRDNNERLHIAKFLQITISTPGQYKEFPFAGQONPEPYLSTFSKEILEAA 401  
QY 361 LNTOTERLGVLGQOREGVIIIRASOEQIRELTRDSESRMHIRRGSSSGPYLFPKR 420  
DB 402 LNTOTERLGVLGQOREGVIIIRASOEQIRELTRDSESRMHIRRGSSSGPYLFPKR 461  
QY 421 PLYSNKYQAYEVKEDYRQLODMDSVFIANITGSMGPFENTRSTKVVVVASGEADV 480  
DB 462 PLYSNKYQAYEVKEDYRQLODMDSVFIANITGSMGPFENTRSTKVVVVASGEADV 521  
QY 481 EMACPHLSGRHGGGGRGGRHEEBEENRQVRAISKEALVVLAGHVVVSSGENEML 540  
DB 522 EMACPHLSGRHGGGGRGGRHEEBEENRQVRAISKEALVVLAGHVVVSSGENEML 581  
QY 541 LPAFGINAKNNHNFAGRENVLQOIEPQAMELAFASRKEVEELFNSODESIFFPBPR 600  
DB 582 LPAFGINAKNNHNFAGRENVLQOIEPQAMELAFAPRKEVEESFNSODSIFFPBPR 641  
QY 601 QHQOOSPRSTKQOQPLVSIIDFVGF 625  
DB 642 QHQOOSPRSTKQOQPLVSIIDFVGF 666

RESULT 4  
US-10-147-095-1  
; Sequence 1, Application US/10147095  
; Publication No. US20030171274A1  
; GENERAL INFORMATION:  
; APPLICANT: Manners, John M.  
; APPLICANT: Marcus, John Paul  
; APPLICANT: Goulter, Kenneth C.  
; APPLICANT: Green, Jodie L.  
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
; FILE REFERENCE: CULN23.001APC  
; CURRENT APPLICATION NUMBER: US/10/147,095  
; CURRENT FILING DATE: 2002-05-15  
; PRIOR APPLICATION NUMBER: US/09/331,631A  
; PRIOR FILING DATE: 1999-06-21  
; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
; PRIOR FILING DATE: 1997-12-22  
; PRIOR APPLICATION NUMBER: AU PO 4275  
; PRIOR FILING DATE: 1996-12-20  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 1  
; LENGTH: 666

TYPE: PRT  
; ORGANISM: Macadamia integrifolia  
US-10-147-095-1

Query Match 97.0%; Score 3227; DB 14; Length 666;  
Best Local Similarity 96.6%; Pred. No. 9.3e-248;  
Matches 604; Conservative 9; Mismatches 12; Indels 0; Gaps 0;

QY 1 QCMOLETSGMRRVCSCDCKRFEEDIDMSKYDNQEDPTECOQCORRQOESDPDQOY 60  
DB 42 QCMOLETSGMRRVCSCDCKRFEEDIDMSKYDNQEDPTECOQCORRQOESDPDQOY 101  
QY 61 CORCKEICEEBEENRQDPQOQYEQCKCORRETPRHMOICQRCERREKEXKQ 120  
DB 102 CORCKEICEEBEENRQDPQOQYEQCKCORRETPRHMOICQRCERREKEXKQ 161  
QY 121 QKRYEQOREDEBEKYEERMEKGNKRDPOQREYEDCRRRCQOEPRQOHCQRCREQR 221  
DB 162 QKRYEQOREDEBEKYEERMEKGNKRDPOQREYEDCRRRCQOEPRQOHCQRCREQR 221  
QY 181 QHGGGDLMPORGGSGRYEBEGEKQSDNPYFDEBSLSTRFTEBEGHISYLENFYGRSK 240  
DB 222 QHGGGDLMPORGGSGRYEBEGEKQSDNPYFDEBSLSTRFTEBEGHISYLENFYGRSK 281  
QY 241 LRLALKNYRLVLEANPAFVLPHTLDADAILVIGRGALKMIHRNRESYNLECGDVI 300  
DB 282 LRLALKNYRLVLEANPAFVLPHTLDADAILVIGRGALKMIHRNRESYNLECGDVI 341  
QY 301 RIPAGTTFYLLINRDNNERLHIAKFLQITISTPGQYKEFPFAGQONPEPYLSTFSKEILEAA 360  
DB 342 RIPAGTTFYLLINRDNNERLHIAKFLQITISTPGQYKEFPFAGQONPEPYLSTFSKEILEAA 401  
QY 361 LNTOTERLGVLGQOREGVIIIRASOEQIRELTRDSESRMHIRRGSSSGPYLFPKR 420  
DB 402 LNTOTERLGVLGQOREGVIIIRASOEQIRELTRDSESRMHIRRGSSSGPYLFPKR 461  
QY 421 PLYSNKYQAYEVKEDYRQLODMDSVFIANITGSMGPFENTRSTKVVVVASGEADV 480  
DB 462 PLYSNKYQAYEVKEDYRQLODMDSVFIANITGSMGPFENTRSTKVVVVASGEADV 521  
QY 481 EMACPHLSGRHGGGGRGGRHEEBEENRQVRAISKEALVVLAGHVVVSSGENEML 540  
DB 522 EMACPHLSGRHGGGGRGGRHEEBEENRQVRAISKEALVVLAGHVVVSSGENEML 581  
QY 541 LPAFGINAKNNHNFAGRENVLQOIEPQAMELAFASRKEVEELFNSODESIFFPBPR 600  
DB 582 LPAFGINAKNNHNFAGRENVLQOIEPQAMELAFAPRKEVEESFNSODSIFFPBPR 641  
QY 601 QHQOOSPRSTKQOQPLVSIIDFVGF 625  
DB 642 QHQOOSPRSTKQOQPLVSIIDFVGF 666

RESULT 5  
US-09-331-631a-3  
; Sequence 3, Application US/09331631A  
; Patent No. US20020168392A1  
; GENERAL INFORMATION:  
; APPLICANT: Manners, John M.  
; APPLICANT: Marcus, John Paul  
; APPLICANT: Goulter, Kenneth C.  
; APPLICANT: Green, Jodie L.  
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
; FILE REFERENCE: CULN23.001APC  
; CURRENT APPLICATION NUMBER: US/09/331,631A  
; CURRENT FILING DATE: 1999-06-21  
; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
; PRIOR FILING DATE: 1997-12-22  
; PRIOR APPLICATION NUMBER: AU PO 4275  
; PRIOR FILING DATE: 1996-12-20  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 3

```

; LENGTH: 666
; TYPE: PRT
; ORGANISM: Macadamia integrifolia
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: (1)...(28)
; NAME/KEY: PEPTIDE
; LOCATION: (29)...(666)
US-09-331-631a-3

```

```

Query Match      96.7%; Score 3215; DB 9; Length 666;
Best Local Similarity 96.6%; Pred. No. 8.3e-247;
Matches 604; Conservative 7; Mismatches 14; Indels 0; Gaps 0;

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```

QY 1 QCMQLETSQWRCVSCQCDKRFEDIDMSKYDQEDPOTECQCCQRCRCQESDPPQOQY 60
DB 42 QCMQLETSQWRCVSCQCDKRFEDIDMSKYDQEDPOTECQCCQRCRCQESDPPQOQY 101
QY 61 CORCKEICEESEEYNNRQDPQOQYECQRCQRETEPRHMOICQRCERAYEKERKQ 120
DB 102 CORCKEICEESEEYNNRQDPQOQYECQRCQRETEPRHMOICQRCERAYEKERKQ 161
QY 121 QKRYEQQORDEDEKYEEMKESGDNKRDPOQREYEDCRHCEQOEPRLOQOCCRCQEQOR 180
DB 162 QKRYEQQORDEDEKYEEMKESGDNKRDPOQREYEDCRHCEQOEPRLOQOCCRCQEQOR 221
QY 181 QHGRGGDLINPQGGSGRVEEGEKKOSDNPYFDERSLSTRFTEGHISVLENFYGRSK 240
DB 222 QHGRGGDLINPQGGSGRVEEGEKKOSDNPYFDERSLSTRFTEGHISVLENFYGRSK 281
QY 241 LLRLAKNYRLVLEANNPNAFVLPTHLDADAILLVIGRGALKMIHRDNRESYNLECGDYI 300
DB 282 LLRLAKNYRLVLEANNPNAFVLPTHLDADAILLVIGRGALKMIHRDNRESYNLECGDYI 341
QY 301 RIPAGTFYLLINRDNNEHLIAKFLQITSTPGQYKEFPFAGQNPDEPLSTFSKEILEAA 360
DB 342 RIPAGTFYLLINRDNNEHLIAKFLQITSTPGQYKEFPFAGQNPDEPLSTFSKEILEAA 401
QY 361 LNTQTERLRGLVGQQRREGVITRASQEOIRELTRDSESRMHIRGESSRGPYNLFNKR 420
DB 402 LNTQTERLRGLVGQQRREGVITRASQEOIRELTRDSESRMHIRGESSRGPYNLFNKR 461
QY 421 PLYSNKYGQAYEVKPEDYRQLODMDVSVFIANTQSGMMGPFNTSTKVVAASGEADV 480
DB 462 PLYSNKYGQAYEVKPEDYRQLODMDVSVFIANTQSGMMGPFNTSTKVVAASGEADV 521
QY 481 EMACPHLSGRHGRGGRGKHEEEDVHYEQVAKRLSKREAIIVVLAGHPVVFVSSGENEHL 540
DB 522 EMACPHLSGRHGRGGRGKHEEEDVHYEQVAKRLSKREAIIVVLAGHPVVFVSSGENEHL 581
QY 541 LFAFGINAQNNHENFLAGRENNVLAQIEPQAMELAFAASKREVEELFNSODESIFPPGPR 600
DB 582 LFAFGINAQNNHENFLAGRENNVLAQIEPQAMELAFAASKREVEELFNSODESIFPPGPR 641
QY 601 QHQOQSSTKQOQPLVSIIDFVGF 625
DB 642 QHQOQSSTKQOQPLVSIIDFVGF 666

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RESULT 6
US-10-147-095-3
; Sequence 3, Application US/10147095
; Publication No. US2003017127481
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie L.
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; FILE REFERENCE: CULAN23.001APC
; CURRENT APPLICATION NUMBER: US/10/147, 095
; PRIOR FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: US/09/331, 631A

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; PRIOR FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: PCT/AU97/00874
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: AU PO 4275
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 666
; TYPE: PRT
; ORGANISM: Macadamia integrifolia
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: (1)...(28)
; NAME/KEY: PEPTIDE
; LOCATION: (29)...(666)
US-10-147-095-3

```

```

Query Match      96.7%; Score 3215; DB 14; Length 666;
Best Local Similarity 96.6%; Pred. No. 8.3e-247;
Matches 604; Conservative 7; Mismatches 14; Indels 0; Gaps 0;

```

```

QY 1 QCMQLETSQWRCVSCQCDKRFEDIDMSKYDQEDPOTECQCCQRCRCQESDPPQOQY 60
DB 42 QCMQLETSQWRCVSCQCDKRFEDIDMSKYDQEDPOTECQCCQRCRCQESDPPQOQY 101
QY 61 CORCKEICEESEEYNNRQDPQOQYECQRCQRETEPRHMOICQRCERAYEKERKQ 120
DB 102 CORCKEICEESEEYNNRQDPQOQYECQRCQRETEPRHMOICQRCERAYEKERKQ 161
QY 121 QKRYEQQORDEDEKYEEMKESGDNKRDPOQREYEDCRHCEQOEPRLOQOCCRCQEQOR 180
DB 162 QKRYEQQORDEDEKYEEMKESGDNKRDPOQREYEDCRHCEQOEPRLOQOCCRCQEQOR 221
QY 181 QHGRGGDLINPQGGSGRVEEGEKKOSDNPYFDERSLSTRFTEGHISVLENFYGRSK 240
DB 222 QHGRGGDLINPQGGSGRVEEGEKKOSDNPYFDERSLSTRFTEGHISVLENFYGRSK 281
QY 241 LLRLAKNYRLVLEANNPNAFVLPTHLDADAILLVIGRGALKMIHRDNRESYNLECGDYI 300
DB 282 LLRLAKNYRLVLEANNPNAFVLPTHLDADAILLVIGRGALKMIHRDNRESYNLECGDYI 341
QY 301 RIPAGTFYLLINRDNNEHLIAKFLQITSTPGQYKEFPFAGQNPDEPLSTFSKEILEAA 360
DB 342 RIPAGTFYLLINRDNNEHLIAKFLQITSTPGQYKEFPFAGQNPDEPLSTFSKEILEAA 401
QY 361 LNTQTERLRGLVGQQRREGVITRASQEOIRELTRDSESRMHIRGESSRGPYNLFNKR 420
DB 402 LNTQTERLRGLVGQQRREGVITRASQEOIRELTRDSESRMHIRGESSRGPYNLFNKR 461
QY 421 PLYSNKYGQAYEVKPEDYRQLODMDVSVFIANTQSGMMGPFNTSTKVVAASGEADV 480
DB 462 PLYSNKYGQAYEVKPEDYRQLODMDVSVFIANTQSGMMGPFNTSTKVVAASGEADV 521
QY 481 EMACPHLSGRHGRGGRGKHEEEDVHYEQVAKRLSKREAIIVVLAGHPVVFVSSGENEHL 540
DB 522 EMACPHLSGRHGRGGRGKHEEEDVHYEQVAKRLSKREAIIVVLAGHPVVFVSSGENEHL 581
QY 541 LFAFGINAQNNHENFLAGRENNVLAQIEPQAMELAFAASKREVEELFNSODESIFPPGPR 600
DB 582 LFAFGINAQNNHENFLAGRENNVLAQIEPQAMELAFAASKREVEELFNSODESIFPPGPR 641
QY 601 QHQOQSSTKQOQPLVSIIDFVGF 625
DB 642 QHQOQSSTKQOQPLVSIIDFVGF 666

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```

RESULT 7
US-09-331-631a-8
; Sequence 8, Application US/09331631A
; Patent No. US20020168392A1
; GENERAL INFORMATION:

```



APPLICANT: Manners, John M.  
APPLICANT: Marcus, John Paul  
APPLICANT: Goulter, Kenneth C.  
APPLICANT: Green, Jodie L.  
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
FILE REFERENCE: CULN23.001APC  
CURRENT APPLICATION NUMBER: US/09/331,631A  
CURRENT FILING DATE: 1999-06-21  
PRIOR APPLICATION NUMBER: PCT/AU97/00874  
PRIOR FILING DATE: 1997-12-22  
PRIOR APPLICATION NUMBER: AU PO 4275  
PRIOR FILING DATE: 1996-12-20  
NUMBER OF SEQ ID NOS: 40  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 8  
LENGTH: 590  
TYPE: PRT  
ORGANISM: Gossypium hirsutum (cotton)  
US-09-331-631A-6

Query Match 32.8%; Score 1092.5; DB 9; Length 590;  
Best Local Similarity 38.4%; Pred. No. 4.4e-78;  
Matches 231; Conservative 115; Mismatches 179; Indels 77; Gaps 13;

QY 35 EDPQTECCQCCRCRQCESDPRQOQYCCRCCKICEEBEENROR--DPOQYECQCRK 92  
DB 35 DDPKRYEDCRRRCWMDTRGQKEQOQCESCKSQYGEKDQQRHREDPQRRYECCQEC 94  
QY 93 QRETEPRHMOICQRCRRRYEKERKQOQKRYEEOQREDEKEYERMEGDKNDPORE 152  
DB 95 --RQEEHQPOCQOQRCCLKRFEQEQO-----SQRO 123  
QY 153 YEDCRHCEQOE--PRLQYOCORCOEQORQHGSGDLMPORG-----GSGRYEEGBE 204  
DB 124 FOECQCHQOEOREBEKQOQVRECKEYQE-----NPMRGREBEAEBEETEGBEQ 175  
QY 205 KQSDNPFYFDRSLSTRPTEEGHISYLENFYGSKLLRALKNYRLVLLLEANPFAVLPT 264  
DB 176 ESHNPFHHRHSFQSRREHGNFRVLQRFASRHPILRGINEFRLSILEANPNTFVLPH 235  
QY 265 HLDADAILLVIGRGALMKIHRDNRESYNLECGDIYRIPAGTFYILINDNNERLHIAKF 324  
DB 236 HCDAEKIYLVNNGRGLTFLTHENKESYIVPGVVVKKPASTYVLANQDNKEKLIIVL 295  
QY 325 LQISTPQOYKEFPFAGGQNPPEYILSTSKETILEALNTOTERLGRVIG-----QORE 377  
DB 296 HRPVNNPQOFEFFPAGSQRPQSYLRAFSSREILPEAFNTRSEQLDELFGGQRRRQOQ 355  
QY 378 GVIIRASQEQIRELIRDSSESRRWHIRGCESSRGPYNLFNKRPLYSNKYQOAYEVKPED 437  
DB 356 GMFRASQEQIRALSQEAITSR---EKSGE--RFAFNLISQTPRYSNQNGRFFEACPE 409  
QY 438 YRLODMQVSYFIANTITGSMGPFENRSTKVVVVASGEADVEMACPHLSGRHGRGG 497  
DB 410 FROLQDIVTVSALQNGSIFVPHYNSKATFVILLTEGNGYAEVWSHLPRQSSYEBEE 469  
QY 498 KRHEEEEBV-----HYEQVRLSKREAIIVLAGHPVVFSSGNENLLIFAFG----- 545  
DB 470 EDEEEEOQOEBEERSGQYRKIRSLRSGDIFVVPANFPVTFVASQNGNLTMTGGLYNO 529  
QY 546 --INANNHENFLAGERNVLOQIEPOMELAFASRKEVEELFNSQDSIFPPGRHQO 604  
DB 530 NINPDHQRIFVAGKINH--RQWDSQAKELAFGVSSRLVDEIFNSNPQESYFVS--RQOR 587  
QY 605 QS 606  
DB 588 AS 589

RESULT 8  
US-10-147-095-8  
Sequence 8, Application US/10147095  
Publication No. US20030171274A1

GENERAL INFORMATION:  
APPLICANT: Manners, John M.  
APPLICANT: Marcus, John Paul  
APPLICANT: Goulter, Kenneth C.  
APPLICANT: Green, Jodie L.  
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
FILE REFERENCE: CULN23.001APC  
CURRENT APPLICATION NUMBER: US/10/147,095  
CURRENT FILING DATE: 2002-05-15  
PRIOR APPLICATION NUMBER: US/09/331,631A  
PRIOR FILING DATE: 1999-06-21  
PRIOR APPLICATION NUMBER: PCT/AU97/00874  
PRIOR FILING DATE: 1997-12-22  
PRIOR APPLICATION NUMBER: AU PO 4275  
PRIOR FILING DATE: 1996-12-20  
NUMBER OF SEQ ID NOS: 40  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 8  
LENGTH: 590  
TYPE: PRT  
ORGANISM: Gossypium hirsutum (cotton)  
US-10-147-095-8

Query Match 32.8%; Score 1092.5; DB 14; Length 590;  
Best Local Similarity 38.4%; Pred. No. 4.4e-78;  
Matches 231; Conservative 115; Mismatches 179; Indels 77; Gaps 13;

QY 35 EDPQTECCQCCRCRQCESDPRQOQYCCRCCKICEEBEENROR--DPOQYECQCRK 92  
DB 35 DDPKRYEDCRRRCWMDTRGQKEQOQCESCKSQYGEKDQQRHREDPQRRYECCQEC 94  
QY 93 QRETEPRHMOICQRCRRRYEKERKQOQKRYEEOQREDEKEYERMEGDKNDPORE 152  
DB 95 --RQEEHQPOCQOQRCCLKRFEQEQO-----SQRO 123  
QY 153 YEDCRHCEQOE--PRLQYOCORCOEQORQHGSGDLMPORG-----GSGRYEEGBE 204  
DB 124 FOECQCHQOEOREBEKQOQVRECKEYQE-----NPMRGREBEAEBEETEGBEQ 175  
QY 205 KQSDNPFYFDRSLSTRPTEEGHISYLENFYGSKLLRALKNYRLVLLLEANPFAVLPT 264  
DB 176 ESHNPFHHRHSFQSRREHGNFRVLQRFASRHPILRGINEFRLSILEANPNTFVLPH 235  
QY 265 HLDADAILLVIGRGALMKIHRDNRESYNLECGDIYRIPAGTFYILINDNNERLHIAKF 324  
DB 236 HCDAEKIYLVNNGRGLTFLTHENKESYIVPGVVVKKPASTYVLANQDNKEKLIIVL 295  
QY 325 LQISTPQOYKEFPFAGGQNPPEYILSTSKETILEALNTOTERLGRVIG-----QORE 377  
DB 296 HRPVNNPQOFEFFPAGSQRPQSYLRAFSSREILPEAFNTRSEQLDELFGGQRRRQOQ 355  
QY 378 GVIIRASQEQIRELIRDSSESRRWHIRGCESSRGPYNLFNKRPLYSNKYQOAYEVKPED 437  
DB 356 GMFRASQEQIRALSQEAITSR---EKSGE--RFAFNLISQTPRYSNQNGRFFEACPE 409  
QY 438 YRLODMQVSYFIANTITGSMGPFENRSTKVVVVASGEADVEMACPHLSGRHGRGG 497  
DB 410 FROLQDIVTVSALQNGSIFVPHYNSKATFVILLTEGNGYAEVWSHLPRQSSYEBEE 469  
QY 498 KRHEEEEBV-----HYEQVRLSKREAIIVLAGHPVVFSSGNENLLIFAFG----- 545  
DB 470 EDEEEEOQOEBEERSGQYRKIRSLRSGDIFVVPANFPVTFVASQNGNLTMTGGLYNO 529  
QY 546 --INANNHENFLAGERNVLOQIEPOMELAFASRKEVEELFNSQDSIFPPGRHQO 604  
DB 530 NINPDHQRIFVAGKINH--RQWDSQAKELAFGVSSRLVDEIFNSNPQESYFVS--RQOR 587  
QY 605 QS 606  
DB 588 AS 589

RESULT 9



```

; PRIOR APPLICATION NUMBER: 60/326,793
; PRIOR FILING DATE: 2001-10-03
; PRIOR APPLICATION NUMBER: 60/371,774
; PRIOR FILING DATE: 2002-04-11
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO: 3
; LENGTH: 540
; TYPE: PRT
; ORGANISM: Anacardium occidentale
US-10-264-303-3

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Query Match      30.5%; Score 1015; DB 14; Length 540;
Best Local Similarity 38.2%; Pred. No. 5,6e-72;
Matches 213; Conservative 112; Mismatches 181; Indels 52; Gaps 11;

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QY 54 DPROQOYQRRCKEICEEEBEEYNRORDPQOQYEQCQKQRETRPRMQLCQRCERY 113
DB 31 DPELQ-----CKHQCKYQRYD-----EQKEQCVKEB-----KY 62
QY 114 EKEKROQRYEEQOREDEEKEEEMKGDNRDPQOREYEDCRHHCQOEPRLOQY-CQ 172
DB 63 YKEKGREREHE-----EEBEEWGTVDEPSTHEBAEKHLSQCMRQCEBGGQKOLCR 118
QY 173 RRCQEQROHGRGGLMNPORGSGRYEGE-EKQSDNPYYFDEKSLSTRPTEBHSV 231
DB 119 FRQERYKKE-RGQH--NYKREDEDEDEDEAEEDENPYFEDFTTKVTEGKQVVL 175
QY 232 LENFGRSKTLRALKNYRVLLEANPNAPVLPTHLDADAILLVIGRGALKMIRHNRES 291
DB 176 LPKFQOKSKLHAEKRYLAVLVANPQAFVPSHMDADISIFVSGRGITIKLENKRES 235
QY 292 YNLBEGDVIRIPAGTFYILINDNNEBRLHIAKFLQITISTPGQYKEFPAGGONPEPYLST 351
DB 236 INVRQGDIVISSGTFPIYANNDENEKLYVQFLRPVNLPGHFEVFGHGGENPESFYRA 295
QY 352 FSKELLEALNTQTERLNGVLGQOREGVYIRASOQIRELTRDDESESRMHIRGESSR 411
DB 296 FSWELLEALNTKSTQLEKLFQKQDGTIMKASKQIRMSRGRGPKIMPT--EST 352
QY 412 GPYNLFNKRPLYSNKGAYEVKPEDYROLQDMDSVFIANITQSGMMGPPFNTRSTKV 471
DB 353 GSFPLFKDPQSGNSKYGQFLFAERIDYPLEKLDVVSVAANITKQGMSPFNSTATIA 412
QY 472 VASGEADVEMACPHLSGRHGGRGKHEEBEEVHYEQVBARLSKREAIIVLAGHPVF 531
DB 413 IVSSEGCVEIACPHLS-----SKSHPSYKRLRIRKDTVFIYPAGHPAT 461
QY 532 VSSGNENLLPFAGINAONNHENFLAGERNVLQOIEPQAMELAPASRKEVEELFNSOD 591
DB 462 VASGNENLEIVCFEYNAENIRYTLAGK-KNLIKMEKEAKELAFKMEGEVDKVFQKD 520
QY 592 ESIFPGRHOQOQSPRS 609
DB 521 EEPFQGPBWRKEKEGRA 538

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RESULT 12
US-10-264-303-4
; Sequence 4, Application US/10264303
; Publication No. US20030124060A1
; GENERAL INFORMATION:
; APPLICANT: Roux, Kenneth
; APPLICANT: Sahe, Shridhar
; APPLICANT: Teuber, Suzanne
; TITLE OF INVENTION: Purified linear Epitopes from Cashew Nuts, Nucleic Acids Encoding
; FILE REFERENCE: 28396 and 30728
; CURRENT APPLICATION NUMBER: US/10/264,303
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/326,793
; PRIOR FILING DATE: 2001-10-03
; PRIOR APPLICATION NUMBER: 60/371,774

```

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; PRIOR FILING DATE: 2002-04-11
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO: 4
; LENGTH: 536
; TYPE: PRT
; ORGANISM: Anacardium occidentale
US-10-264-303-4

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Query Match      30.5%; Score 1014; DB 14; Length 536;
Best Local Similarity 38.0%; Pred. No. 6,7e-72;
Matches 212; Conservative 113; Mismatches 181; Indels 52; Gaps 11;

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QY 54 DPROQOYQRRCKEICEEEBEEYNRORDPQOQYEQCQKQRETRPRMQLCQRCERY 113
DB 27 DPELQ-----CKHQCKYQRYD-----EQKEQCVKEB-----KY 58
QY 114 EKEKROQRYEEQOREDEEKEEEMKGDNRDPQOREYEDCRHHCQOEPRLOQY-CQ 172
DB 59 YKEKGREREHE-----EEBEEWGTVDEPSTHEBAEKHLSQCMRQCEBGGQKOLCR 114
QY 173 RRCQEQROHGRGGLMNPORGSGRYEGE-EKQSDNPYYFDEKSLSTRPTEBHSV 231
DB 115 FRQERYKKE-RGQH--NYKREDEDEDEDEAEEDENPYFEDFTTKVTEGKQVVL 171
QY 232 LENFGRSKTLRALKNYRVLLEANPNAPVLPTHLDADAILLVIGRGALKMIRHNRES 291
DB 172 LPKFQOKSKLHAEKRYLAVLVANPQAFVPSHMDADISIFVSGRGITIKLENKRES 231
QY 292 YNLBEGDVIRIPAGTFYILINDNNEBRLHIAKFLQITISTPGQYKEFPAGGONPEPYLST 351
DB 232 INVRQGDIVISSGTFPIYANNDENEKLYVQFLRPVNLPGHFEVFGHGGENPESFYRA 291
QY 352 FSKELLEALNTQTERLNGVLGQOREGVYIRASOQIRELTRDDESESRMHIRGESSR 411
DB 292 FSWELLEALNTKSTQLEKLFQKQDGTIMKASKQYVAMSRGRGPKIMPT--EST 348
QY 412 GPYNLFNKRPLYSNKGAYEVKPEDYROLQDMDSVFIANITQSGMMGPPFNTRSTKV 471
DB 349 GSFPLFKDPQSGNSKYGQFLFAERIDYPLEKLDVVSVAANITKQGMSPFNSTATIA 408
QY 472 VASGEADVEMACPHLSGRHGGRGKHEEBEEVHYEQVBARLSKREAIIVLAGHPVF 531
DB 409 IVSSEGCVEIACPHLS-----SKSHPSYKRLRIRKDTVFIYPAGHPAT 457
QY 532 VSSGNENLLPFAGINAONNHENFLAGERNVLQOIEPQAMELAPASRKEVEELFNSOD 591
DB 458 VASGNENLEIVCFEYNAENIRYTLAGK-KNLIKMEKEAKELAFKMEGEVDKVFQKD 516
QY 592 ESIFPGRHOQOQSPRS 609
DB 517 EEPFQGPBWRKEKEGRA 534

```

```

RESULT 13
US-10-425-114-60246
; Sequence 60246, Application US/10425114
; Publication No. US2004003488B1
; GENERAL INFORMATION:
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; PRIOR FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO: 60246
; LENGTH: 582

```

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; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3600-011-E12_FLI.pep
US-10-425-114-60246

Query Match
Best Local Similarity 26.9%; Score 894; DB 15; Length 582;
Matches 209; Conservative 88; Mismatches 179; Indels 90; Gaps 13;

QY 73 EBYNRDPQQOYEQCKRCQRETEPRHMQ-ICQRCRRYKKEKQKQKRYEEOQRD 131
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 35 EDDNNHHGHKSGQCVARCEDR---PWHQRPCLCQC-REBEREKQGRSRHEDRSG 90
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 132 EEKYEERKKEGDNKRDPOQREYEDCRHCEQQRRLQYCCRCRQEQQRGGRGDLMP 191
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 91 EGSSSD-----ERQF----- 101
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 192 QRGSGRYEGBEKGSD-NPYFDERSLSTRFTEBGHISYLENFYGRSKLLRALKNYRL 250
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 102 -----KEKQKRRPYFDRSRFRVVRSEQSLRVLRFDEVSRLRLGIRDYRV 150
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 251 VLEANPNAPVLPPTHLDADAILLYIGRGALKMIHRDNBSYNLKCGDVIRIPAGTFYRL 310
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 151 AVEANPRSFVVPSTDAHCICVAEBEGVTTIENGERRSYTIKQGHVFVAPAGAVTYL 210
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 311 INRDNNERLHIAKFLQITSTPGQYKEFPFAGGONPEPYLSTFSKELLALNTQTERLGR 370
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 211 ANTQGRKLVIAKILHTISVPGFQFFPGGRNPESFLSSFSKSIQRAAYKTSDDLRLR 270
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 371 VLQGQ-QREGVIRASQEQIRELTRDSE--SRMWHIRGGESSRGPNYLFNKRPLYSN 425
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 271 LFGRRHQDQKGIIVRAEEQTRRLRRHASEGHHGPHWLPFPGE-SRGPYSLLDQRPSTAN 329
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 426 KYGQAYEVKPDYRQLODMQVSFIANTQSGMMGFPTNRTSTVTVVVASGEADVEMACP 485
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 330 QHGQLEADARSFHDLEHDSVSPFANTAGSMAPLEFNTRSFKAIVPNGKGAELVCP 389
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 486 HLSGRHG---GRGGGRHHEEEVH-----YEQVRARLSKREAVIVLAGHPVVF 531
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 390 HRQSGGSESERERDKGRSEEESESEBQEBAGQYHTIRARLSPGTAFVVPAGHPVFA 449
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 532 VSSGNENLLPFAFGINAQNNHENFLAGERNVLOQIEPQAMELAPASRKEVEELFNSQD 591
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 450 VASRSNMLQIVCFEYHADNREKVFAGAD-NVLQKLDRAKALSPASKAEVDEVLSRR 508
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 592 ESIFPQPRQ--HQOQSPRSTKQOQ 614
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 509 EKGFLPGPKESGHEEREQEEERE 534
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 14
US-10-425-114-39532
; Sequence 39532, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jindong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven B
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 39532
; LENGTH: 584
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
```

```

; OTHER INFORMATION: Clone ID: 700264357_FLI.pep
US-10-425-114-39532

Query Match
Best Local Similarity 26.9%; Score 894; DB 15; Length 584;
Matches 209; Conservative 88; Mismatches 179; Indels 90; Gaps 13;

QY 73 EBYNRDPQQOYEQCKRCQRETEPRHMQ-ICQRCRRYKKEKQKQKRYEEOQRD 131
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 37 EDDNNHHGHKSGQCVARCEDR---PWHQRPCLCQC-REBEREKQGRSRHEDRSG 92
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 132 EEKYEERKKEGDNKRDPOQREYEDCRHCEQQRRLQYCCRCRQEQQRGGRGDLMP 191
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 93 EGSSSD-----ERQF----- 103
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 192 QRGSGRYEGBEKGSD-NPYFDERSLSTRFTEBGHISYLENFYGRSKLLRALKNYRL 250
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 104 -----KEKQKRRPYFDRSRFRVVRSEQSLRVLRFDEVSRLRLGIRDYRV 152
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 251 VLEANPNAPVLPPTHLDADAILLYIGRGALKMIHRDNBSYNLKCGDVIRIPAGTFYRL 310
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 153 AVEANPRSFVVPSTDAHCICVAEBEGVTTIENGERRSYTIKQGHVFVAPAGAVTYL 212
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 311 INRDNNERLHIAKFLQITSTPGQYKEFPFAGGONPEPYLSTFSKELLALNTQTERLGR 370
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 213 ANTQGRKLVIAKILHTISVPGFQFFPGGRNPESFLSSFSKSIQRAAYKTSDDLRLR 272
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 371 VLQGQ-QREGVIRASQEQIRELTRDSE--SRMWHIRGGESSRGPNYLFNKRPLYSN 425
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 273 LFGRRHQDQKGIIVRAEEQTRRLRRHASEGHHGPHWLPFPGE-SRGPYSLLDQRPSTAN 331
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 426 KYGQAYEVKPDYRQLODMQVSFIANTQSGMMGFPTNRTSTVTVVVASGEADVEMACP 485
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 332 QHGQLEADARSFHDLEHDSVSPFANTAGSMAPLEFNTRSFKAIVPNGKGAELVCP 391
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 486 HLSGRHG---GRGGGRHHEEEVH-----YEQVRARLSKREAVIVLAGHPVVF 531
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 392 HRQSGGSESERERDKGRSEEESESEBQEBAGQYHTIRARLSPGTAFVVPAGHPVFA 451
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 532 VSSGNENLLPFAFGINAQNNHENFLAGERNVLOQIEPQAMELAPASRKEVEELFNSQD 591
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 452 VASRSNMLQIVCFEYHADNREKVFAGAD-NVLQKLDRAKALSPASKAEVDEVLSRR 510
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 592 ESIFPQPRQ--HQOQSPRSTKQOQ 614
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 511 EKGFLPGPKESGHEEREQEEERE 536
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 15
US-09-331-631A-22
; Sequence 22, Application US/09331631A
; Patent No. US20020168392A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie L.
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; FILE REFERENCE: CULN23.001AEC
; CURRENT APPLICATION NUMBER: US/09/331,631A
; CURRENT FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: PCT/AU97/00874
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: AU PO 4275
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 22
; LENGTH: 582
; TYPE: PRT
; ORGANISM: Maize
US-09-331-631A-22
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Query Match		26.7%; Score 888; DB 9; Length 582;
Best Local Similarity		36.7%; Pred. No. 7.8e-62;
Matches		208; Conservative 87; Mismatches 181; Indels 90; Gaps 13;
Qy	73	EEYNRRDPDOOYECOCORRETEPRHMQ-ICQRCERYEKEKQKRYEQRED 131
Db	25	EDDNHHHGHKSGCVRCEDR---PMHQRPCLCQC-REERERKQERSHREADDRSG 80
Qy	132	EEKYEEMKEDNKRDPQOREYEDCRHCEQOEPRLOYOCQRCQEQOQHGGDLMP 191
Db	81	EGSSED-----EREQE----- 91
Qy	192	QRGSGRYEEBGEKSD-NPYFEDERSLSTRFTEEGHISYLENFGSKLLRALKNYRL 250
Db	92	-----KEKQKDRRPYFEDRRSFRVVRYSQSLRVLRPFDEVSRLLRGIDRYV 140
Qy	251	VLLLEANPNAFVLPETHLADADAILLVIGRGALMIRHNRRESYNLECGDIVIRIPAGTTFYL 310
Db	141	AVLEANPNSFVPSHTDAHCICYAEGSVVTTIENGERSYTIKQGHVFAVAPAGAVTYL 200
Qy	311	INRDNERLHIAKFLQITSTPGQYKEFPAGQNPPEYLSFESKEILEALNTQTERLIG 370
Db	201	ANTDGRKKLVITKIHTISVPGEFQFFPGGGRNPESFLSFSKSIQRAAYKTSDDLRLR 260
Qy	371	VLGQ--QREGVIRASQOIRELTRDSE---SRWHIRGGSERGPYNLENKREPLYSN 425
Db	261	LFGRRGQDKGILVRATEEOTRELRRHASEGGHGPMPPLPFGE-SRGPYSLDQRPSTAN 319
Qy	426	KYGQAYEVKPEDYRQLOMDVSVFIANTTQGSMMGPFNTRSTKVVVVSGEADVEMACP 485
Db	320	QHGOIYEADARSFHLAEHDVSVSFANITAGSMANPLFNTRSFKAIVPNKGVAEIVCP 379
Qy	486	HLSGRHG---GRGGGKRHEEEVEH-----YEQVRAILSKREAIIVLAGHPVF 531
Db	380	HRQSQGSESEBRERDKGRSESEEESESEOEBAQGYHTIRALSPGTAFVVPAGHPVA 439
Qy	532	VSSGNETLLPFAGINAQNHNENFLAGRENVLQOIEPQAMELFAASRKEVEELFNQSD 591
Db	440	VASRDSNLQIVCFEYHADRNKVFLAGAD-NVLQKLDRAKALSPASKAEVDEVLAGSRR 498
Qy	592	ESIFPGPQRO--HQOQSPRSTKQOQ 614
Db	499	EKGFLPGPEBSGGHEREQEEREEREE 524

Search completed: February 15, 2005, 18:33:54  
 Job time : 105.91 secs

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Qy	247	OSDNVYUPEBBLSTRFRBEEGHISVLENFYGSKLLRALXNRYVLEENPNAFVLP	3068
Dd	176	OSHNPHFHRFPOSFREEHGQFVLAQBPASHPIPLRGINERLSILENPTVEV	235
Qy	307	LDADAILLVTVGRGAKMLHRDRESYNECCGIVIRIPAGTFFYLINRDNERLHIAFL	366
Dd	236	CDAEKIYLVTVNGRGLTFLTHENKESYVPGVVAVWPAAGSTIYLANQDKKELI	255
Qy	367	QTSIFPGQYKEFPFAGGQNPDEPULSTFSKEILEALINTQALRGLVG-----	419
Dd	296	RPVNNPROBEFFFPAGSQRPQSVLRAFSREILPEAFNTRSEQULDELFGQRSHRQGG	355
Qy	420	VIIASQEDIRLTLNDDSSRRKHIRGSESSGPNLFPKRLYLSNKYQALVYVPEDY	479
Dd	356	MFRKKSQOEIRALSOEATSPR-----EKSGE--RFAENLVYRTERYSUNQNRFP	409
Qy	480	ROLQDMDVSPFIANTQSGMMGPFENTRSTKVVVVAAGEADVEMACPHTLSGRHGRGK	539
Dd	410	ROLSPINTVSLATQNGSSIIVPHYXSKATFVULVNEGNOYVEMVBPBLP	465
Qy	540	RHEEEDV-----HYEQYKARLSKREALVVPVGHFVVPVSSGNENILLFAFG-----	588
Dd	470	QOOEOEGBEERBSGQYRKIRLSQLSRSDIFVVPANFPVTFAVASONQULRMGTGFLYUNIN	529
Qy	569	AQNNHENFLAGGERNVLOQIEPQAMELAPAPKVEBELFNSQDESTFFGPPROHQOS	647
Dd	530	PDHNRIFVAGKINHV-RQWDSQAKELAGVSSRLVDELFPNNPQESYFAS-RQROAS	586

```

1  RESULT 4
2  US-09-106-872A-4
3  / Sequence 4, Application US/09106872A
4  / Patent No. 6486311
5  / GENERAL INFORMATION:
6  / APPLICANT: Burks Jr., A. Wesley
7  / APPLICANT: Stanley, J. Steven
8  / APPLICANT: Cockrell, Gael
9  / APPLICANT: King, Nina E.
10 / APPLICANT: Sampson, Hugh A.
11 / APPLICANT: Helm, Ricki M.
12 / APPLICANT: Bannou, Gary A.
13 / TITLE OF INVENTION: Peanut Allergens and Methods
14 / FILE REFERENCE: HS 103 CIP
15 / CURRENT APPLICATION NUMBER: US/09/106,872A
16 / PRIOR APPLICATION NUMBER: 1999-06-29
17 / PRIOR FILING DATE: 1996-09-23
18 / NUMBER OF SEQ ID NOS: 23
19 / SOFTWARE: PatentIn Ver. 2.1
20 / SEQ ID NO 4
21 / LENGTH: 626
22 / TYPE: PRT
23 / ORGANISM: Arachis hypogaea
24 / FEATURE:
25 / OTHER INFORMATION: Amino Acids 25-34 are Ara H 1 binding epitope,
26 / OTHER INFORMATION: peptide 1
27 / OTHER INFORMATION: Amino Acids 48-57 are Ara H 1 binding epitope,
28 / OTHER INFORMATION: peptide 2
29 / OTHER INFORMATION: Amino Acids 65-74 are Ara H 1 binding epitope,
30 / OTHER INFORMATION: peptide 3
31 / OTHER INFORMATION: Amino Acids 89-98 are Ara H 1 binding epitope,
32 / OTHER INFORMATION: peptide 4
33 / OTHER INFORMATION: Amino Acids 97-106 are Ara H 1 binding epitope,
34 / OTHER INFORMATION: peptide 5
35 / OTHER INFORMATION: Amino Acids 107-116 are Ara H 1 binding epitope,
36 / OTHER INFORMATION: peptide 6
37 / OTHER INFORMATION: Amino Acids 123-132 are Ara H 1 binding epitope,
38 / OTHER INFORMATION: peptide 7
39 / OTHER INFORMATION: Amino Acids 134-143 are Ara H 1 binding epitope,
40 / OTHER INFORMATION: peptide 8
41 / OTHER INFORMATION: Amino Acids 143-152 are Ara H 1 binding epitope,
42 / OTHER INFORMATION: peptide 9
43 / OTHER INFORMATION: Amino Acids 294-303 are Ara H 1 binding epitope,
44 / OTHER INFORMATION: peptide 9

```

[illegible][illegible]

QY 643 HQOQSSRSTKQOQ 656  
DB 589 SOSQSPSSPEKSP 602

## RESULT 5

US-07-955-905A-24  
; Sequence 24, Application US/07955905A  
; Patent No. 5770433  
; GENERAL INFORMATION:  
; APPLICANT:  
; TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND  
; TITLE OF INVENTION: PRECURSOR  
; NUMBER OF SEQUENCES: 28  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/955,905A  
; FILING DATE: 21-JAN-1993  
; CLASSIFICATION: 435  
; INFORMATION FOR SEQ ID NO: 24:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 605 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; ORIGINAL SOURCE:  
; ORGANISM: Glycine max  
; FEATURE:  
; NAME/KEY: Protein  
; LOCATION: 1..605  
; OTHER INFORMATION: /note= "Vicilin from G. max"  
US-07-955-905A-24

Query Match 24.2%; Score 853.5; DB 1; Length 605;  
Best Local Similarity 31.4%; Pred. No. 1.3e-68;  
Matches 194; Conservative 143; Mismatches 211; Indels 69; Gaps 15;

QY 72 YNODDPQTDCCQCCRCRCQSGPRQOQYCCRC-----KECEEE--EYNRQDP 122  
DB 27 YVEKENPKIN--KCLQSCNSERDSYRNA-CHARCNLLKVEKECEEEBEIPEPRPRQHP 83  
QY 123 QOQVEQCCRCQNHETEPHMOTCCQRCERREYKEKQKQKRYEEOREDEKYEEMKE 182  
DB 84 EEPQOPGKEDEDEQPRPIPRPQREHEHQREGEQWPKREKGEKGSBEDED 143  
QY 183 EENKRDPOQREYEDCRRCEQOEPQOYQCCRCRCQROGRGDLINPQSGSGRYEE 242  
DB 144 EEEDEDEQFPPP--RPPHOKERNEEDED--EEQRES-----EE 181  
QY 243 GEEKO-----SDNPFYFDESLSTRFTEEGHISLLENFYGRSKLLRALKNRYLVLEAN 297  
DB 182 SEDSLRHKKNKPNFLFNSNREFTLPKQYGRIRVLQFNQSPQLQNLRLRYLLEFNSK 241  
QY 298 PNAFVLPTHLDADALLVTGARGALKMIRDNRESYNLECGDIVIRIPAGTFYLLINRDN 357  
DB 242 PNTLLPNHADADYILVINGTALISLVNDDDRSYRLQSGDALRVPBGTTYYVVPDNN 301  
QY 358 ERLHAKLQITSTGQYKEFPFAGGONPEYLPSTFSKEILEAALNTOAERLQVL--- 413  
DB 302 ENLRITLAIPIVNNKGRFESFLLSTEAQSYLQGFNSHIIASVDKTFEEINVLFSRE 361  
QY 414 -----GQOR--EGVLIASQEQIRELTDSESRMWHIRGSGSRGYNLFNKRPIYSN 466  
DB 362 EGQOQGEORLQESVIVEISKEQIRALSKRASSSKRT-----SEEDKPNLRSDPIYSN 417  
QY 467 KYGQAYEVKPEYDQLOQMDVSVFIANTIGSQMNGPFENTRSTYVVVAVGADAVENACP 526  
DB 418 KLGKFEITPBNKQDLRLDIFLSIVDNNEGALLPFPNSKAVILVILINEGDANIELV-- 475

QY 527 HLGRRHG--RRGKRHEEEDVHYEQYKARLSREATVVPVGHVYVSSGNLILFA 584  
DB 476 -----GLKQOQOQOQOEBQPLEYKRALESEODIVITAGYFVVV--NATSNLFNA 526  
QY 585 FGINANNHNPFLAGERNVLQOIEPQAMELAFAPRKEVELFNSQDESIFFPGPROHQ 644  
DB 527 IGINANNQNFPLAGSQDNVISQIPSOVQELAFGSAQAVKLLKNGQESYFVDAQPRKK 586  
QY 645 QOQSSRSTKQOQPLVSIIL 661  
DB 587 EBNKGRK--GPLSSIL 601

## RESULT 6

US-07-955-905A-25  
; Sequence 25, Application US/07955905A  
; Patent No. 5770433  
; GENERAL INFORMATION:  
; APPLICANT:  
; TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND  
; TITLE OF INVENTION: PRECURSOR  
; NUMBER OF SEQUENCES: 28  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/955,905A  
; FILING DATE: 21-JAN-1993  
; CLASSIFICATION: 435  
; INFORMATION FOR SEQ ID NO: 25:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 571 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; ORIGINAL SOURCE:  
; ORGANISM: Pisum sativum  
; FEATURE:  
; NAME/KEY: Protein  
; LOCATION: 1..571  
; OTHER INFORMATION: /note= "Convicillin from P. sativum"  
US-07-955-905A-25

Query Match 23.6%; Score 832.5; DB 1; Length 571;  
Best Local Similarity 32.7%; Pred. No. 9.3e-67;  
Matches 204; Conservative 110; Mismatches 196; Indels 113; Gaps 16;

QY 72 YNODDPQTDCCQCCRCRCQSGPRQOQYCCRCRCICEEEREYVNRQDPQOQOQOE 131  
DB 27 YAYVDESETRVVGQEBRGQEG-----EKEKRGEMRPSYEKEHEE 70  
QY 132 RCPNHETEPHMOTCCQRCERREYKEKQKQK---RYEEOREDEKYEEMKEEDNR 187  
DB 71 EKQY-----RYOREKQKEVQPRKEHEEDEDQVEEERSGQRE 114  
QY 188 DPQOREYEDCRRCEQOEPQOYQCCRCRCQROGRGDLINPQSGSGRYEESQ 247  
DB 115 DPBE-----RAFLRHEER-----TKDRRH-----OREEERESSESQ 150  
QY 248 SDNPFYFDESLSTRFTEEGHISVLENFYGRSKLLRALKNRYLVLEANPAFVLPYTL 307  
DB 151 HRNPFPLFKSNKFLTLLENNGHIRLQRPDKSDLPENIQNRYLYEYRAKHTIPLPQHI 210  
QY 308 DADAILLVYTGARGALKMIRDNRESYNLECGDIVIRIPAGTFYLLINRDNNEHLIAKFLQ 367  
DB 211 DADILLVINGKRAILTVLSPNDRNSYNLERGDTIKIPAGTISYLVNQDDEDLRVVDFVI 270  
QY 368 TISTPGQYKEFPFAGGONPEYLPSTFSKEILEAALNTOAERLQVL----- 413  
DB 271 PVNRQKFAF--GLSENKQYLGRFSKNILBASINTKTIETIEKVLLEBQEKKQPOLNDR 328



Qy 642 QHOOSRS 650  
Db 479 PSEGRRA 487

RESULT 9  
US-09-323-195A-18  
; Sequence 18, Application US/09323195A  
; Patent No. 6462257  
; GENERAL INFORMATION:  
; APPLICANT: Pullman, Gerald  
; APPLICANT: Caltray, John  
; APPLICANT: Perrera, Rangan  
; TITLE OF INVENTION: VICILIN-LIKE SEED STORAGE PROTEIN GENE PROMOTER AND  
; TITLE OF INVENTION: METHODS OF USING THE SAME  
; FILE REFERENCE: IPST0009  
; CURRENT APPLICATION NUMBER: US/09/323,195A  
; CURRENT FILING DATE: 1999-06-01  
; NUMBER OF SEQ ID NOS: 19  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 18  
; LENGTH: 448  
; TYPE: PR  
; ORGANISM: Picea glauca  
US-09-323-195A-18

Query Match 21.7%; Score 765; DB 4; Length 448;  
Best Local Similarity 37.8%; Pred. No. 8, 6e-61;  
Matches 162; Conservative 89; Mismatches 154; Indels 24; Gaps 9;

Qy 232 POGGSGRBESEKSDNPFYFDESLSTRFTEGHISVLENFYGRSKLRALKNYRL 291  
Db 34 PEYLGRGRGR-EEEREENPVFHSDFRTASSEAGEIRALPNFGEVSELLEGIRKPRV 92  
Qy 292 VLEAPNPAFVPTHLADADAILVTGSGALKMIRHNDRESNTECGDYIRIPACTTPTL 351  
Db 93 TCLEMPNTVMPLHYDATTWILYTRKRGYIAYVHONELVKRLEGGDFGVPSCHTPTL 152  
Qy 352 IRDNERNLHIAKFLDTIST-PGOYKEFPAGONDEPYLSTFSKEILEALNTQAEIRL 410  
Db 153 VNDDHNTLRISLVFVSTVGEVOPFVAGGRNPQIVYSAFSDVDLEAENTVOOLE 212  
Qy 411 GVLAGOOREGVIISASGOEIRLTDSEBRKHIRG--GSSR---GPNLFNKPL 463  
Db 213 RIFGKHSVITHADEQIREMR-----KRGSGAGMSAPBHPKPFNFNQRPD 262  
Qy 464 YENKYGQAYEVKEDYRQ--LQDMVSVFIANTOGSMGPFPTSTKTVVVAAGBAYEM 523  
Db 263 FENENGRFTIAGPKVYPLDALDVGLADLNPSTAPSLNSKTSIGIVTNGEGRTEM 322  
Qy 524 ACPHLSGRHGRGGRKREEDVHYEYKARLSKREAIYVPGHVPVVGSSGNELLLF 583  
Db 323 ACPHL-GQHG--SSPFRGDDITYQRYWAKLRTGSVYIVPAGHPHTEIATNSRLQIL 379  
Qy 584 AFGINAQNNHNFVLAGRENVVLOIEPOAMELAFAPR-KEVERELFNSODSIFPPGRQ 642  
Db 380 WFDLMTTRNGRERFLAGK-NNTVLTIERIRQLSTFVNGEIEEVLQKQVILLRGPQR 438  
Qy 643 HOQOSSRST 651  
Db 439 RSRDEARSS 447

RESULT 10  
US-09-424-283-2  
; Sequence 2, Application US/09424283  
; Patent No. 6437219  
; GENERAL INFORMATION:  
; APPLICANT: Grimes, et al.  
; TITLE OF INVENTION: Sucrose binding proteins  
; FILE REFERENCE: 4630-50206  
; CURRENT APPLICATION NUMBER: US/09/424,283  
; CURRENT FILING DATE: 1999-11-19

; PRIOR APPLICATION NUMBER: PCT/US98/10465  
; PRIOR FILING DATE: 1998-05-21  
; PRIOR APPLICATION NUMBER: US 60/047,568  
; PRIOR FILING DATE: 1997-05-22  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 444  
; TYPE: PR  
; ORGANISM: Glycine max  
US-09-424-283-2

Query Match 20.9%; Score 739; DB 4; Length 444;  
Best Local Similarity 34.9%; Pred. No. 1, 9e-58;  
Matches 172; Conservative 85; Mismatches 154; Indels 82; Gaps 14;

Qy 105 RKEICEEEREYNNQRDPQ--QYEOOEORQRHETPRHMQTOQRCERRYEKRRKQ 162  
Db 27 KCKEYVEER-----DELVTCHNQCOQOQYEGDKR--VCLQSCD-RYHMKQERE 76  
Qy 163 KRYEQRDEDEKYEERKKEEDNRDPQOREVEDCRRCCEQEBRQYOCORCREQORQ 222  
Db 77 KOIEETREKKEE-ESRREE-----EQEQ 101  
Qy 223 HGRGDDLINPQGGSGKYESEKSDNPFYFDE-NSLSTRFTEGHISVLENFYGRSK 281  
Db 102 H-----BEQDENPYIFEDKDFETRVETEGGRIVLKKTEKSK 140  
Qy 282 LLRALKNYRLVLEAPNPAFVPTHLADADAILVTGSGALKMIRHNDRESNTECGDYIR 341  
Db 141 LLOGIENFRLAILEARHNTVSPRHPSEVYFNIGKRAVLGLVSESETEKITLEPDMT 200  
Qy 342 RLPACTTPTLIRDNERNLHIA--KFLDTISTPGOYKEFPAGONDEPYLSTFSKEILE 399  
Db 201 HIPAGTEPLYVNRDNDKFLAMLHPVSVSTPGKEEFPAFGGRDPESVLSAFSNVLIQ 260  
Qy 400 AALNTQAEIRLGVLAGOOREGVIISASGOEIRLTDSEBRKHIRGSGSSGNPTNLN 459  
Db 261 AALQTPGKLENVFDQONSGISFTRISREOVRALA-PTKSSWMP--GGE-SKROPNIFS 316  
Qy 460 KRPLYSNKYGQAYEVKEDYRQ--LQDMVSVFIANTOGSMGPFPTSTKTVVVAAG 517  
Db 317 KRPLISNGYRLTEVGDDEKSMQLRNLMLFTNITQBSMSTHYNSHATIALVING 376  
Qy 518 EADVEMACPHLSGRHGRGGRKREEDVHYEYKARLSKREAIYVPGHVPVVGSSGN 577  
Db 377 RGHLDQSCPMSSRSSHSK---HDKSSPSYHRISDLKPGMVFPVPGHPVTIASNK 431  
Qy 578 ENLLPFAFGINAQ 590  
Db 432 ENLLMICEFVNAR 444

RESULT 11  
US-07-955-905A-26  
; Sequence 26, Application US/07955905A  
; Patent No. 5770433  
; GENERAL INFORMATION:  
; APPLICANT:  
; TITLE OF INVENTION: RECOMBINANT 47 AND 31 kD COCOA PROTEINS AND  
; TITLE OF INVENTION: PRECURSOR  
; NUMBER OF SEQUENCES: 28  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/955,905A  
; FILING DATE: 21-JAN-1993  
; CLASSIFICATION: 435  
; INFORMATION FOR SEQ ID NO: 26:  
; SEQUENCE CHARACTERISTICS:

LENGTH: 410 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
ORIGINAL SOURCE:  
ORGANISM: Pisum sativum  
FEATURE:  
NAME/KEY: Protein  
LOCATION: 1..410  
OTHER INFORMATION: /note= "vicillin from P. sativum"  
US-07-955-905A-26

Query Match 19.9%; Score 704.5; DB 1; Length 410;  
Beet Local Similarity 37.2%; Pred. No. 2,3e-55;  
Matches 148; Conservative 76; Mismatches 145; Indels 29; Gaps 5;

QY 249 DNPYFDESRSLSTRTEREGHISVLENFYGRSKLRLAKNYRLVLEANPNFVPLTHLD 308  
DB 20 ENPFIFKSNRPGTLVLENENGHIRLQKPKRSKIFENLQNYRLLEYKSKPHLFLPQYTD 79  
QY 309 ADAILLVTGGGALMKIHRDNRESYNLECGDVIRIPAGTFYILNRDNNERLHIAKPLQI 368  
DB 80 ADFILIVLSGKATLTVLKSNDRNSFNLERGDAIKLPAGSIAYFARNDNNEBRVIDLAIP 139  
QY 369 ISTPGQYKEFPFAGGONPEPVYSTSKETLEALTOERLKGVLGQGR----- 417  
DB 140 VAKPQOLQSLSTGTONQKSSLSGFSKNILEAFNTNVEELKVLLEQEQESQHRSLK 199  
QY 418 -----EGVLIASQEQIRELTRDDSESRMHIRGGSSESGPYNLFNKKPLYSNKYG 469  
DB 200 DRROINEENVIYKXSRDIEELSKNAKSS-----KKSVSSESGPYNLRSRPITSNKFG 255  
QY 470 QAYEVKPEDYRQLQMDVSVFIANTTQGSMMGPFFNTSTKVVVAVASGEADVEMACPHLS 529  
DB 256 KFEFITPEKNOQLDIDFVNSVDIKVGSLLPNTNSRAIVVTVTEGKDPVLVGQR-- 313  
QY 530 GRHGRRGGRKHEEEDV--HYEQYKARLSKREALIVPVGHVAVVSSGENMLLFAFGI 587  
DB 314 NENQKENDKEEKEEETSKQVQLRAKLSPGDVIVIPAGHVAJNASDLMLI--GLGI 371  
QY 588 NAOHNHNFILAGERERNVLOQIEPQAMELAFAPRKEVE 625  
DB 372 NAEENRNFILAGEEDNVISQVERPYKELAFPOSSHEVD 409

RESULT 12  
US-09-323-195A-17  
Sequence 17, Application US/09323195A  
Patent No. 6462257  
GENERAL INFORMATION:  
APPLICANT: Pullman, Gerald  
APPLICANT: Cairney, John  
APPLICANT: Pereira, Ranjan  
TITLE OF INVENTION: VICILIN-LIKE SEED STORAGE PROTEIN GENE PROMOTER AND  
TITLE OF INVENTION: METHODS OF USING THE SAME  
FILE REFERENCE: 19970009  
CURRENT APPLICATION NUMBER: US/09/323,195A  
CURRENT FILING DATE: 1999-06-01  
NUMBER OF SEQ ID NOS: 19  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 17  
LENGTH: 523  
TYPE: PRT  
ORGANISM: Pisum caeda  
US-09-323-195A-17

Query Match 19.7%; Score 694.5; DB 4; Length 523;  
Beet Local Similarity 34.9%; Pred. No. 2.7e-54;  
Matches 153; Conservative 86; Mismatches 164; Indels 35; Gaps 10;  
QY 223 HGRGDDLINPQSGRGYEEGEKQSDNPFYFDESRSLSTRTEREGHISVLENFYGRSKL 282  
DB 40 HGRG-----HGRREERREBNPYVHSDRFRNRASSDAGEIRALPNFGESBEL 86

QY 283 LRALKNYRLVLEANPNFVPLTHLDADAILLVTTGGGALMKIHRDNRESYNLECGDVIR 342  
DB 87 LEGISKYFVCTIEKRPNTVMPLPHYLDATWILVYVGGRGYIAVYHONELVKKRLLEGADVFG 146  
QY 343 IPAGTFYILNRDNNERLHIAKPLQIIST-PGOYKEFPFAGGONPEPVYSTSKETLEAL 401  
DB 147 VPSGHTFVLVNNDDNSLRITSLRTVSTMGEEIPYVAGGRNDEITYSAPSDVLEAA 206  
QY 402 LNTQA--ERLGLVGLGQOREGVLIASQEQIRELTRD-----DSERRMHIRGGSSESRGP 454  
DB 207 FNTVIVAEARHTFPHIIESEYSM--ANEQIEMLRKGFSAESMSASHPK-----P 257  
QY 455 YNLFKPKRYLNNKYGQAYEVKPEDYRQLQMDVSVFIANTTQGSMMGPFFNTSTKVVV 514  
DB 258 FNLKQKDFENDNGRFTFRAGPNENPLDADVAVAGFVLNPGMTAPSHNTKATSAIIV 317  
QY 515 ASGEADVEMACPHLSGRHGRGGRKHEEEDVHYEQYKARLSKREALIVPVGHVFPVFS 574  
DB 318 TQGBRITMACPHL-GQHG--SSRREKQDEINQYRABLRGTGYVVPAGHPITGIA 374  
QY 575 SGENMLLFAFGINAONHNENFLAGERNVLOQIEPQAMELAFAPR-KEYEELFNSODE 633  
DB 375 CTEGHLEILWPDINTSGNERQFLAGK--YNVLTLEKEVROJSFNPFRGEELDEVLRQXD 433  
QY 634 SIFFPPRQHQOQSSRST 651  
DB 434 QVILRGPMQORDEPRSS 451

RESULT 13  
US-09-424-283-4  
Sequence 4, Application US/09424283  
Patent No. 6437219  
GENERAL INFORMATION:  
APPLICANT: Grimes, et al.  
TITLE OF INVENTION: Sucrose binding proteins  
FILE REFERENCE: 4630-50206  
CURRENT APPLICATION NUMBER: US/09/424,283  
CURRENT FILING DATE: 1999-11-19  
PRIOR APPLICATION NUMBER: PCT/US96/10465  
PRIOR FILING DATE: 1998-05-21  
PRIOR APPLICATION NUMBER: US 60/047,568  
PRIOR FILING DATE: 1997-05-22  
NUMBER OF SEQ ID NOS: 15  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 4  
LENGTH: 409  
TYPE: PRT  
ORGANISM: Glycine max  
US-09-424-283-4

Query Match 19.5%; Score 689.5; DB 4; Length 409;  
Beet Local Similarity 35.8%; Pred. No. 5.3e-54;  
Matches 146; Conservative 81; Mismatches 138; Indels 43; Gaps 9;  
QY 179 RMKEEDNRDP-----QOREYED----CRRCEQEPHQYCCQRRCREQORH 223  
DB 27 KLKTEVEDEDELVTCKHQCCQOQRYTESDKRTCLQCCDSMKQEREKVSEETREKEBEH 86  
QY 224 GRGDDLINPQSGRGYEEGEKQSDNPFYFDE-RSLSTRTEREGHISVLENFYGRSKL 282  
DB 87 -----QOHEEBEDENPYVEEDDFSTRVETEGSIRVLKKTFSKSL 130  
QY 283 LRALKNYRLVLEANPNFVPLTHLDADAILLVTTGGGALMKIHRDNRESYNLECGDVIR 342  
DB 131 LOGIENFPLALIEBAHHTFVPRHDSRVVLFNIKRAVLDAVLESSEKTKTLLEGDMITH 190  
QY 343 IPAGTFYILNRDNNERLHIAKPLQIISTPGQYKEFPFAGGONPEPVYSTSKETLEAL 402  
DB 191 IPAGTFYIVNRDENREKLLMLHI PVSTPGKFEFFFGGRDESVLSAFSMVTLQAL 250  
QY 403 NTQAEURLRGVLGQGRBGVLIASQEQIRELTRDDSESRMHIRGGSSESRPYNLFNKRP 462

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Db      251  QTPKGLERLFPNQNEGSIFFKISREVRALA-PTKSSWPF--CGE-SKAGNISKRP 306
Qy      463  LYSNKGQAYEVKPEBYRQ-LQDMVSVFIANTOGSMGPFNTSTKVYVYASGEADV 521
Db      307  TFSNGYGLTEVGDDEKSMWLQRLNLTFTNTITGSMSTIHNSHTATYIALVMGRHL 366
Qy      522  EMACPHLSGRHGRGGRGHEEDVYEVKARLSKREAIYVPGH 569
Db      367  QISCPHMSRSRDSK-----HDKSSPSYHRISADLKPWFVVPFGHP 408

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## RESULT 14

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US-07-955-905A-27
/ Sequence 27, Application US/07955905A
/ Patent No. 5770433
/ GENERAL INFORMATION:
/ APPLICANT:
/ TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND
/ TITLE OF INVENTION: PRECURSOR
/ NUMBER OF SEQUENCES: 28
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/07/955, 905A
/ FILING DATE: 21-JAN-1993
/ CLASSIFICATION: 435
/ INFORMATION FOR SEQ ID NO: 27:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 421 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ ORIGINAL SOURCE:
/ ORGANISM: Phaseolus vulgaris
/ FEATURE:
/ NAME/KEY: Protein
/ LOCATION: 1..421
/ OTHER INFORMATION: /note= "vicilin from P. vulgaris"
US-07-955-905A-27

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Query Match 15.8%; Score 557; DB 1; Length 421;  
Best Local Similarity 33.1%; Pred. No. 6e-42;

Matches 141; Conservative 74; Mismatches 155; Indels 56; Gaps 12;

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Qy      244  EERQSDNPYYFD-ERSLSTRFRTBECHISVLENFYGRSKLRLAKNYRLVLLANPAFV 302
Db      30  EESQDNPFYFNDNSMNTLFFKQYGHRLVLFQDQSKRLQNLQEDYLVFRESKPEFTL 89
Qy      303  LPHLDADAILLVYTGGRGALKMIRHNDRESY-----NLGCDYIRI PACTFTYLIRDN 356
Db      90  LPOQAAEILLVVRSGSAILVVKPDREYFLSDNPIRSDQKIPAGITFVLVNDP 149
Qy      357  NERLHAKELQITSTPGVKEFFPAGQNPBPYISTRSKEILPAALNTQAEIRGLVQ- 415
Db      150  KEDLRILQAMPVNNP-QIHEFTLSSTAQSYIQEFSKHLLEAFSFKFEEINRVLFE 208
Qy      416  --REGVILISASQEOIRLRTDSESRMRHIRRGESSRGPVLPNNRPYLSKRYQAYE 473
Db      209  RGQGGVIVNIDSEKIKELSKHAKSSR-----KSLSKDNTTIGFENLTTE 255
Qy      474  VKPEPYROLQDMVSVFIANT--TQSGMGPFFVTSTKVYVYASGEADVEMACPHLSGR 531
Db      256  -----RTDNLNVLISSTIEMEGALFVPHYYSKAIYLVNBEAHELV----- 300
Qy      532  HGRGGRGGRHHEEDVYEVKARLSKREAIYVPGHVPVFSNGENILLPAFGINQON 591
Db      301  --GRKMK-----ETLEYESYRAELSKDQVFIIPAYPAIKATSNVNT--GFGINANN 351
Qy      592  NHENFLAGRRBNVLOQI-----EPQAMELAFAAPRKEVEELFNSQDESIFFPGPRQHOQ 646

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Db      352  NNRRLLAGKTDNVISSIGALDCKVYLGTLTFSGSGDEWKLINQSGS-YVVDANHQQE 410
Qy      647  SSRSTK 652
Db      411  QQKGRK 416

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## RESULT 15

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US-09-106-872A-17
/ Sequence 17, Application US/09106872A
/ Patent No. 6486311
/ GENERAL INFORMATION:
/ APPLICANT: Burks Jr., A. Wesley
/ APPLICANT: Stanley, J. Steven
/ APPLICANT: Cockrell, J. Gael
/ APPLICANT: King, Nina B.
/ APPLICANT: Sampson, Hugh A.
/ APPLICANT: Helm, Ricki M.
/ APPLICANT: Bannor, Gary A.
/ TITLE OF INVENTION: Peanut Allergens and Methods
/ FILE REFERENCE: HS 103 CIP
/ CURRENT APPLICATION NUMBER: US/09/106, 872A
/ PRIOR FILING DATE: 1999-06-29
/ PRIOR APPLICATION NUMBER: PCT/US96/15222
/ NUMBER OF SEQ ID NOS: 23
/ SOFTWARE: Patentin Ver. 2.1
/ SEQ ID NO 17
/ LENGTH: 335
/ TYPE: PRT
/ ORGANISM: Arachis hypogaea
US-09-106-872A-17

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Query Match 13.5%; Score 476; DB 4; Length 335;  
Best Local Similarity 34.8%; Pred. No. 9.5e-35;

Matches 117; Conservative 55; Mismatches 114; Indels 50; Gaps 9;

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Qy      369  ISTPGYKEFPFAGQNPBPYISTRSKEILPAALNTQAEIRGLV-----GQQ 416
Db      3  VNTPGQFEDFPFASRDSSTYLGFSRNTLEAFAFNAFNEIRRYLLEBNAGQOBERGQR 62
Qy      417  R-----RGVILISASQEOIRLRTDSESRMRHIRRGESSRGC---PVNLFNKRP 463
Db      63  RSTSSSENREGVIVKSKHEVEELTKHAKS-----VSKKGSSEBDITPILRGEFD 117
Qy      464  YSNKYGQAYEVKPEBYRQ-LQDMVSVFIANTOGSMGPFNTSTKVYVYASGEADV 522
Db      118  LSNNGKLFYVKKPKNPQLQDPMMLTCEIKEGALMDHFNKAMVIVVNNKGTGNLE 177
Qy      523  MACPHLSGRHGRGGRGHEEDV-----HYEVKARLSKREAIYVPGHVPVFSNGE 578
Db      178  LVAVRKQOQGRHHEEDDEDEESNREVRVYTLREGEVFIIPAHVPAINASSEL 237
Qy      579  NLLPFAFGINAKNNHENFLAGRBNVLOQIEPQAMELAFAAPRKEVEELFNSQDESI 638
Db      238  HLL--GFGIQAENNHIFLAGDKDNTVIDIETKQADLAFPGSGEVEVRLINQKESHFVS 295
Qy      639  GPROHQOQSS-----RSTKQOQ-----PLVSTL 661
Db      296  AQSGSQSPSPSEKESPEKEDQEBENQGGKGPLSLITL 331

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Search completed: February 15, 2005, 18:03:01  
Job time : 42.742 secs